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OM protein - protein search, using sw model

Run on: February 18, 2006, 03:47:20 ; Search time 169 Seconds
(without alignments)
1888.885 Million cell updates/sec

Title: US-09-445-614B-2
Perfect score: 4004
Sequence: 1 MTSFSSPVFRLETLGGQSE.....EEDGASENYVPVQLQSN 764

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1867569 seqs, 417829326 residues

Total number of hits satisfying chosen parameters: 1867569

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA Main:
1: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep.*
2: /cgn2_6/ptodata/1/pubpaa/US08_PUBCOMB.pep.*
3: /cgn2_6/ptodata/1/pubpaa/US09_PUBCOMB.pep.*
4: /cgn2_6/ptodata/1/pubpaa/US10A_PUBCOMB.pep.*
5: /cgn2_6/ptodata/1/pubpaa/US10B_PUBCOMB.pep.*
6: /cgn2_6/ptodata/1/pubpaa/US11_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | ID | Description |
|------------|--------|-------------|--------|----|-------------------|
| 1 | 4004 | 100.0 | 764 | 3 | US-09-828-466-4 |
| 2 | 4004 | 100.0 | 764 | 3 | US-09-978-303-36 |
| 3 | 4004 | 100.0 | 764 | 4 | US-10-000-823-6 |
| 4 | 4004 | 100.0 | 764 | 4 | US-10-342-844-68 |
| 5 | 4004 | 100.0 | 764 | 4 | US-10-757-262-26 |
| 6 | 4004 | 100.0 | 764 | 5 | US-10-473-127-761 |
| 7 | 4004 | 100.0 | 764 | 5 | US-10-473-127-762 |
| 8 | 4004 | 100.0 | 764 | 5 | US-10-473-127-765 |
| 9 | 4004 | 100.0 | 764 | 5 | US-10-473-127-770 |
| 10 | 4004 | 100.0 | 764 | 5 | US-10-473-127-772 |
| 11 | 4004 | 100.0 | 764 | 5 | US-10-473-127-776 |
| 12 | 4004 | 100.0 | 764 | 5 | US-10-473-127-779 |
| 13 | 4004 | 100.0 | 764 | 5 | US-10-915-017-36 |
| 14 | 4004 | 100.0 | 764 | 6 | US-11-013-090-5 |
| 15 | 3998 | 99.9 | 764 | 4 | US-10-168-651-3 |
| 16 | 3998 | 99.9 | 764 | 5 | US-10-473-127-766 |
| 17 | 3998 | 99.9 | 764 | 5 | US-10-473-127-767 |
| 18 | 3988.5 | 99.6 | 763 | 5 | US-10-473-127-764 |
| 19 | 3988.5 | 99.6 | 763 | 5 | US-10-473-127-773 |
| 20 | 3988.5 | 99.6 | 763 | 5 | US-10-473-127-774 |
| 21 | 3988.5 | 99.6 | 889 | 4 | US-10-137-316-2 |
| 22 | 3945 | 98.5 | 764 | 3 | US-09-828-466-5 |
| 23 | 3945 | 98.5 | 764 | 4 | US-10-342-844-70 |
| 24 | 3945 | 98.5 | 764 | 5 | US-10-473-127-763 |
| 25 | 3945 | 98.5 | 764 | 5 | US-10-473-127-778 |
| 26 | 3945 | 98.5 | 764 | 5 | US-10-473-127-780 |
| 27 | 3945 | 98.5 | 764 | 5 | US-10-782-695-10 |

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|----|--------|------|-----|---|--------------------|--------------------|
| 28 | 3939 | 98.4 | 764 | 5 | US-10-473-127-775 | Sequence 775, Appl |
| 29 | 3926 | 98.1 | 760 | 3 | US-09-764-367A-9 | Sequence 9, Appli |
| 30 | 3375 | 84.3 | 644 | 4 | US-10-342-844-44 | Sequence 44, Appl |
| 31 | 3258 | 81.4 | 630 | 5 | US-10-473-127-777 | Sequence 777, Appl |
| 32 | 3258 | 81.4 | 630 | 6 | US-11-013-090-20 | Sequence 20, Appl |
| 33 | 3159 | 78.9 | 756 | 4 | US-10-342-844-86 | Sequence 86, Appl |
| 34 | 3158 | 78.9 | 756 | 4 | US-10-342-844-52 | Sequence 52, Appl |
| 35 | 3051.5 | 76.2 | 761 | 3 | US-09-978-303-4 | Sequence 4, Appli |
| 36 | 3051.5 | 76.2 | 761 | 4 | US-10-342-844-46 | Sequence 46, Appl |
| 37 | 3051.5 | 76.2 | 761 | 5 | US-10-915-017-4 | Sequence 4, Appli |
| 38 | 3041.5 | 76.0 | 761 | 4 | US-10-342-844-34 | Sequence 34, Appl |
| 39 | 3036.5 | 75.8 | 727 | 3 | US-09-978-303-23 | Sequence 23, Appl |
| 40 | 3036.5 | 75.8 | 727 | 5 | US-10-473-127-769 | Sequence 769, App |
| 41 | 3036.5 | 75.8 | 727 | 5 | US-10-473-127-771 | Sequence 771, App |
| 42 | 3036.5 | 75.8 | 727 | 5 | US-10-915-017-23 | Sequence 23, Appl |
| 43 | 3028.5 | 75.6 | 762 | 4 | US-10-342-844-98 | Sequence 98, Appl |
| 44 | 2789 | 69.7 | 665 | 4 | US-10-027-828-18 | Sequence 18, Appl |
| 45 | 2669 | 66.7 | 511 | 4 | US-10-284-237-2806 | Sequence 2806, Ap |

ALIGNMENTS

RESULT 1
US-09-828-466-4
; Sequence 4, Application US/09828466
; Patent No. US20020035056A1
; GENERAL INFORMATION:
; APPLICANT: Curtis, Rory A.J.
; APPLICANT: Silos-Santiago, Immaculada
; TITLE OF INVENTION: 54420, A NOVEL HUMAN CALCIUM CHANNEL
; FILE REFERENCE: WNI-125CP
; CURRENT APPLICATION NUMBER: US/09/828,466
; CURRENT FILING DATE: 2001-04-06
; PRIOR APPLICATION NUMBER: US 09/544,797
; PRIOR FILING DATE: 2000-04-07
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 4
; LENGTH: 764
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-09-828-466-4

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| Query Match | | 100.0% | Score 4004; | DB 3; | Length 764; |
| Best Local Similarity | | 100.0%; | Pred. No. 0; | | |
| Matches 764; | | Conservative 0; | Mismatches 0; | Indels 0; | Gaps 0; |
| Qy | 1 | MTSPSSSPVFRLETLGGQSEADRGKLDGSGGLPPMESQFGEDRKFAPIRVNLNY | 60 | | |
| Db | 1 | MTSPSSSPVFRLETLGGQSEADRGKLDGSGGLPPMESQFGEDRKFAPIRVNLNY | 60 | | |
| Qy | 61 | RKGTGASQDPNRFDRDLFNAVSRGVPEDLAGLPEYLSKTSKYLTDSEYEGSTGKTCL | 120 | | |
| Db | 61 | RKGTGASQDPNRFDRDLFNAVSRGVPEDLAGLPEYLSKTSKYLTDSEYEGSTGKTCL | 120 | | |
| Qy | 121 | MKAVLNKQGNACILPLLIQIDRDSGNPQPLVNAQCTDDYRHSALHIAIEKESLQCVK | 180 | | |
| Db | 121 | MKAVLNKQGNACILPLLIQIDRDSGNPQPLVNAQCTDDYRHSALHIAIEKESLQCVK | 180 | | |
| Qy | 181 | LLVENGANVHARACGRFFQKGQCTCFYFGLPLSLAACTQWDVSVYLLLENPHOPASLOA | 240 | | |
| Db | 181 | LLVENGANVHARACGRFFQKGQCTCFYFGLPLSLAACTQWDVSVYLLLENPHOPASLOA | 240 | | |
| Qy | 241 | TDSQGNVTLHALVMSDNSAENIALVTSMDYDGLLQAGARLCPTVQLBIDIRNLQDLTPKL | 300 | | |
| Db | 241 | TDSQGNVTLHALVMSDNSAENIALVTSMDYDGLLQAGARLCPTVQLBIDIRNLQDLTPKL | 300 | | |
| Qy | 301 | AAKEGKIEIPRHILQREFSGLSHLRKFTWCYGPVRVSLYDLASVDSCEANSVLEIAF | 360 | | |
| Db | 301 | AAKEGKIEIPRHILQREFSGLSHLRKFTWCYGPVRVSLYDLASVDSCEANSVLEIAF | 360 | | |
| Qy | 361 | HCKSPHRHVMVLEPLNKLQAKWDLILPKFFLNLNLIYMFIFTTAVAVHQTPLKQAA | 420 | | |

Db 361 HCKSPHRHMVLEPLNKLQAKWDLII PKFFLNLCLNIYMFIFTAVAYHQPTLKKQAA 420
QY 421 PHLKAEVGNMMLTGHLILGGLYLLVGQWYFWRHRHVFIMISFIDSYPEILFLFOALL 480
Db 421 PHLKAEVGNMMLTGHLILGGLYLLVGQWYFWRHRHVFIMISFIDSYPEILFLFOALL 480
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QY 541 IYLVFLFGFAVALVSLSQEAWRPEAPTGNATESVQPMQEGDEGNGAQYRGILEASLEL 600
Db 541 IYLVFLFGFAVALVSLSQEAWRPEAPTGNATESVQPMQEGDEGNGAQYRGILEASLEL 600
QY 601 FKFTIGMGLAFQEQHLFRGMVLLLLAYVLLTYIILLNMLIALMSETVNSVATDSWSIW 660
Db 601 FKFTIGMGLAFQEQHLFRGMVLLLLAYVLLTYIILLNMLIALMSETVNSVATDSWSIW 660
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Db 661 KLOKAI SVLEMENGYWMCCKQKQAGVMLTVGTPDGS PDERMCFRVEEVNWSWEQTLPT 720
QY 721 LCEDPGAGVPRTLENPNVLASPPKEDGEGASEENYVPVQLLQSN 764
Db 721 LCEDPGAGVPRTLENPNVLASPPKEDGEGASEENYVPVQLLQSN 764

RESULT 2
US-09-978-303-36
; Sequence 36, Application US/09978303
; Publication No. US20030049728A1
; GENERAL INFORMATION:
; APPLICANT: Julius, David J.
; APPLICANT: Caterina, Michael J.
; APPLICANT: Brake, Anthony J.
; TITLE OF INVENTION: Nucleic acid sequences encoding
; TITLE OF INVENTION: capsaicin receptor and capsacin receptor-related
; TITLE OF INVENTION: polypeptides and uses thereof
; FILE REFERENCE: UCAL084CON
; CURRENT APPLICATION NUMBER: US/09/978,303
; CURRENT FILING DATE: 2001-10-15
; PRIOR APPLICATION NUMBER: 09/235,451
; PRIOR FILING DATE: 1999-01-22
; PRIOR APPLICATION NUMBER: 60/072,151
; PRIOR FILING DATE: 1998-01-22
; PRIOR APPLICATION NUMBER: 08/915,461
; PRIOR FILING DATE: 1997-08-20
; NUMBER OF SEQ ID NOS: 48
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 36
; LENGTH: 764
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-978-303-36

Query Match 100.0%; Score 4004; DB 3; Length 764;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 764; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Db 1 MTSPPSSPVFRLETLDGGQEDGSEADRGKLDGSGLPPMESQFGEDRKFPAPQIRVNLNY 60
QY 61 RKTGTASQDPNPRFDRDLRFNAVSRGVPEDLAGLPEYLSKTYLTDSEYTEGSTGKTCL 120
Db 61 RKTGTASQDPNPRFDRDLRFNAVSRGVPEDLAGLPEYLSKTYLTDSEYTEGSTGKTCL 120
QY 121 MKAVLNLKQGVNACILPLLQIDRDSGNPQPLVNAQCTDDYRGRHSALHIAIEKRSIQCVK 180
Db 121 MKAVLNLKQGVNACILPLLQIDRDSGNPQPLVNAQCTDDYRGRHSALHIAIEKRSIQCVK 180
QY 181 LIVENGANVHARACGRFFQKGGQCTCFYFGBLPLSLAACTKQMDVVSYLLENPHQASLOA 240

Db 181 LIVENGANVHARACGRFFQKGGQCTCFYFGBLPLSLAACTKQMDVVSYLLENPHQASLOA 240
QY 241 TDSQGNVTVLHALVMSIDNSAENIALVTSYDGLLOAGARLCTPVQLEDINLQDLTPKL 300
Db 241 TDSQGNVTVLHALVMSIDNSAENIALVTSYDGLLOAGARLCTPVQLEDINLQDLTPKL 300
QY 301 AAKGKIEIFRHLQREFSGLSHRKFTWCYGPVRVSLYDLASVDSCEENSVLBIIAF 360
Db 301 AAKGKIEIFRHLQREFSGLSHRKFTWCYGPVRVSLYDLASVDSCEENSVLBIIAF 360
QY 361 HCKSPHRHMVLEPLNKLQAKWDLII PKFFLNLCLNIYMFIFTAVAYHQPTLKKQAA 420
Db 361 HCKSPHRHMVLEPLNKLQAKWDLII PKFFLNLCLNIYMFIFTAVAYHQPTLKKQAA 420
QY 421 PHLKAEVGNMMLTGHLILGGLYLLVGQWYFWRHRHVFIMISFIDSYPEILFLFOALL 480
Db 421 PHLKAEVGNMMLTGHLILGGLYLLVGQWYFWRHRHVFIMISFIDSYPEILFLFOALL 480
QY 481 TVVSQVLCFLAIEWYLLPLLSALVGLWMLNLLYYTRGFQHTGIYSVMIQKVLRLDLRFL 540
Db 481 TVVSQVLCFLAIEWYLLPLLSALVGLWMLNLLYYTRGFQHTGIYSVMIQKVLRLDLRFL 540
QY 541 IYLVFLFGFAVALVSLSQEAWRPEAPTGNATESVQPMQEGDEGNGAQYRGILEASLEL 600
Db 541 IYLVFLFGFAVALVSLSQEAWRPEAPTGNATESVQPMQEGDEGNGAQYRGILEASLEL 600
QY 601 FKFTIGMGLAFQEQHLFRGMVLLLLAYVLLTYIILLNMLIALMSETVNSVATDSWSIW 660
Db 601 FKFTIGMGLAFQEQHLFRGMVLLLLAYVLLTYIILLNMLIALMSETVNSVATDSWSIW 660
QY 661 KLOKAI SVLEMENGYWMCCKQKQAGVMLTVGTPDGS PDERMCFRVEEVNWSWEQTLPT 720
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QY 721 LCEDPGAGVPRTLENPNVLASPPKEDGEGASEENYVPVQLLQSN 764
Db 721 LCEDPGAGVPRTLENPNVLASPPKEDGEGASEENYVPVQLLQSN 764

RESULT 3
US-10-000-823-6
; Sequence 6, Application US/10000823
; Publication No. US20030027164A1
; GENERAL INFORMATION:
; APPLICANT: Bristol-Myers Squibb Company
; TITLE OF INVENTION: NOVEL HUMAN NUCLEIC ACID MOLECULES AND POLYPEPTIDES EXPRESSED IN SPINAL CORD AND BRAIN
; FILE REFERENCE: D0109NP
; CURRENT APPLICATION NUMBER: US/10/000,823
; CURRENT FILING DATE: 2001-11-30
; PRIOR APPLICATION NUMBER: 60/250,587
; PRIOR FILING DATE: 2000-12-01
; NUMBER OF SEQ ID NOS: 31
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 6
; LENGTH: 764
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-000-823-6

Query Match 100.0%; Score 4004; DB 4; Length 764;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 764; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Db 1 MTSPPSSPVFRLETLDGGQEDGSEADRGKLDGSGLPPMESQFGEDRKFPAPQIRVNLNY 60
QY 61 RKTGTASQDPNPRFDRDLRFNAVSRGVPEDLAGLPEYLSKTYLTDSEYTEGSTGKTCL 120
Db 61 RKTGTASQDPNPRFDRDLRFNAVSRGVPEDLAGLPEYLSKTYLTDSEYTEGSTGKTCL 120

QY 121 MKAVLNKDGVNACILPLQLIDRDSGNPQPLVNAQCTDDYVRGSHALHIAIEKRSLOQVK 180
DB 121 MKAVLNKDGVNACILPLQLIDRDSGNPQPLVNAQCTDDYVRGSHALHIAIEKRSLOQVK 180
QY 181 LLVENGANVHARACGRFFQKGQCTCFYFGLPLSLAACTKQWDVVSYLENPHOPASLOA 240
DB 181 LLVENGANVHARACGRFFQKGQCTCFYFGLPLSLAACTKQWDVVSYLENPHOPASLOA 240
QY 241 TDSQNTVLHALVMSIDNSAENIALVTSMDYDGLQAGARLCTVQLEDIRNLQDLTLPKL 300
DB 241 TDSQNTVLHALVMSIDNSAENIALVTSMDYDGLQAGARLCTVQLEDIRNLQDLTLPKL 300
QY 301 AAKEGKIIFRHILQREFSGLSHRKFTWCYGPVRVSLVDLASVDSCEANSVLEIIF 360
DB 301 AAKEGKIIFRHILQREFSGLSHRKFTWCYGPVRVSLVDLASVDSCEANSVLEIIF 360
QY 361 HCKSPHRRMVMVLEPLNKLQAKWDLIPKFFLPLNLIYMFIFTAVAYHQTLLKQAA 420
DB 361 HCKSPHRRMVMVLEPLNKLQAKWDLIPKFFLPLNLIYMFIFTAVAYHQTLLKQAA 420
QY 421 PHLKAEGVNSMLLTGHILILGGLYLLVQWYFWRHVFIIWISFIDSYPFELFLFOALL 480
DB 421 PHLKAEGVNSMLLTGHILILGGLYLLVQWYFWRHVFIIWISFIDSYPFELFLFOALL 480
QY 481 TVSQVLCFLAEIEMWLPVLLVLSALVGLWNLIIYTRGFQHTGIYSVMIQVILRDLRFL 540
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QY 541 IYLVFLFGFALVSLSQEAWRPEAPTGPNTATESVQPMEGDEGNGAQYRGILEASLEL 600
DB 541 IYLVFLFGFALVSLSQEAWRPEAPTGPNTATESVQPMEGDEGNGAQYRGILEASLEL 600
QY 601 FKFTIGMELAFQEQHFRGMVLLIILAYVLLTYILLNMLIALMSETVNSVATDSWSIW 660
DB 601 FKFTIGMELAFQEQHFRGMVLLIILAYVLLTYILLNMLIALMSETVNSVATDSWSIW 660
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QY 721 LCEPDSGAGVPRTLNPLVSLPPKEDGEGASEENYVVPVQLLQSN 764
DB 721 LCEPDSGAGVPRTLNPLVSLPPKEDGEGASEENYVVPVQLLQSN 764

RESULT 4

US-10-342-844-68
; Sequence 68, Application US/10342844
; Publication No. US20040009537A1
; GENERAL INFORMATION:
; APPLICANT: Roos, Jack
; APPLICANT: Stauderman, Kenneth
; APPLICANT: Velicelebi, G'n_l
; TITLE OF INVENTION: METHODS OF MODULATING AND IDENTIFYING
; TITLE OF INVENTION: AGENTS THAT MODULATE INTRACELLULAR CALCIUM
; FILE REFERENCE: 37481-3307
; CURRENT APPLICATION NUMBER: US/10/342,844
; CURRENT FILING DATE: 2003-01-13
; PRIOR APPLICATION NUMBER: US 60/347,459
; PRIOR FILING DATE: 2002-01-11
; PRIOR APPLICATION NUMBER: US 60/401,171
; PRIOR FILING DATE: 2002-08-02
; PRIOR APPLICATION NUMBER: US 60/405,678
; PRIOR FILING DATE: 2002-08-20
; NUMBER OF SEQ ID NOS: 115
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 68
; LENGTH: 764
; TYPE: PRT
; ORGANISM: Homo sapiens
; PUBLICATION INFORMATION:
; DATABASE ACCESSION NUMBER: Genbank AAD26363
; DATABASE ENTRY DATE: 1999-04-07

US-10-342-844-68

Query Match 100.0%; Score 4004; DB 4; Length 764;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 764; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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DB 1 MTSPPSPVFLETLDDGQEDGSEADRGKLDGSGLPMSQFQGEDRKFPQIRVNLNY 60
QY 61 RKGTCASQPDNRDRDLFNAVSRGVPEDLAGLPEYLSKTSKYLTDSEYTEGSTGKTCL 120
DB 61 RKGTCASQPDNRDRDLFNAVSRGVPEDLAGLPEYLSKTSKYLTDSEYTEGSTGKTCL 120
QY 121 MKAVLNKDGVNACILPLQLIDRDSGNPQPLVNAQCTDDYVRGSHALHIAIEKRSLOQVK 180
DB 121 MKAVLNKDGVNACILPLQLIDRDSGNPQPLVNAQCTDDYVRGSHALHIAIEKRSLOQVK 180
QY 181 LLVENGANVHARACGRFFQKGQCTCFYFGLPLSLAACTKQWDVVSYLENPHOPASLOA 240
DB 181 LLVENGANVHARACGRFFQKGQCTCFYFGLPLSLAACTKQWDVVSYLENPHOPASLOA 240
QY 241 TDSQNTVLHALVMSIDNSAENIALVTSMDYDGLQAGARLCTVQLEDIRNLQDLTLPKL 300
DB 241 TDSQNTVLHALVMSIDNSAENIALVTSMDYDGLQAGARLCTVQLEDIRNLQDLTLPKL 300
QY 301 AAKEGKIIFRHILQREFSGLSHRKFTWCYGPVRVSLVDLASVDSCEANSVLEIIF 360
DB 301 AAKEGKIIFRHILQREFSGLSHRKFTWCYGPVRVSLVDLASVDSCEANSVLEIIF 360
QY 361 HCKSPHRRMVMVLEPLNKLQAKWDLIPKFFLPLNLIYMFIFTAVAYHQTLLKQAA 420
DB 361 HCKSPHRRMVMVLEPLNKLQAKWDLIPKFFLPLNLIYMFIFTAVAYHQTLLKQAA 420
QY 421 PHLKAEGVNSMLLTGHILILGGLYLLVQWYFWRHVFIIWISFIDSYPFELFLFOALL 480
DB 421 PHLKAEGVNSMLLTGHILILGGLYLLVQWYFWRHVFIIWISFIDSYPFELFLFOALL 480
QY 481 TVSQVLCFLAEIEMWLPVLLVLSALVGLWNLIIYTRGFQHTGIYSVMIQVILRDLRFL 540
DB 481 TVSQVLCFLAEIEMWLPVLLVLSALVGLWNLIIYTRGFQHTGIYSVMIQVILRDLRFL 540
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DB 541 IYLVFLFGFALVSLSQEAWRPEAPTGPNTATESVQPMEGDEGNGAQYRGILEASLEL 600
QY 601 FKFTIGMELAFQEQHFRGMVLLIILAYVLLTYILLNMLIALMSETVNSVATDSWSIW 660
DB 601 FKFTIGMELAFQEQHFRGMVLLIILAYVLLTYILLNMLIALMSETVNSVATDSWSIW 660
QY 661 KLOKAISVLEMEGYWCKKQKORAGVMTVGTGKPDGSPDERWCPRVEVNWASWEQTLPT 720
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QY 721 LCEPDSGAGVPRTLNPLVSLPPKEDGEGASEENYVVPVQLLQSN 764
DB 721 LCEPDSGAGVPRTLNPLVSLPPKEDGEGASEENYVVPVQLLQSN 764

RESULT 5

US-10-757-262-26
; Sequence 26, Application US/10757262
; Publication No. US20040197825A1
; GENERAL INFORMATION:
; APPLICANT: Karicheti, Venkateswarlu
; APPLICANT: Silos-Santiago, Immaculada
; APPLICANT: Eliasof, Scott D.
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR TREATING
; TITLE OF INVENTION: UROLOGICAL DISORDERS USING 44390, 54181, 211, 5687, 884,
; TITLE OF INVENTION: 1405, 636, 4421, 5410, 30905, 2045, 16405, 18560, 2047,
; TITLE OF INVENTION: 33751, 52872, 14063, 20739, 32544, 43239, 51164,
; TITLE OF INVENTION: 53010, 16852, 1587, 2207, 22245, 2387, 52908, 69112, 14990,
; TITLE OF INVENTION: 18547, 115, 579, 15985, 15625, 760, 18603, 2395, 2554, 8675,

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; TITLE OF INVENTION: 32720, 4809, 14303, 16816, 17827, 32620, 577, 619, 1423.
; TITLE OF INVENTION: 2158, 8263, 15402, 16209, 16386, 21165, 30911, 41897, 1643,
; TITLE OF INVENTION: 2543, 9626, 13231, 32409, 84260, 2882, 8203, 32678 OR
; FILE REFERENCE: MPI03-007PIRNOWNIM
; CURRENT APPLICATION NUMBER: US/10/757,262
; CURRENT FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 60/440,318
; PRIOR FILING DATE: 2003-01-15
; PRIOR APPLICATION NUMBER: US 60/444,783
; PRIOR FILING DATE: 2003-02-04
; PRIOR APPLICATION NUMBER: US 60/457,901
; PRIOR FILING DATE: 2003-03-27
; PRIOR APPLICATION NUMBER: US 60/468,775
; PRIOR FILING DATE: 2003-05-08
; PRIOR APPLICATION NUMBER: US 60/471,614
; PRIOR FILING DATE: 2003-05-19
; PRIOR APPLICATION NUMBER: US 60/478,742
; PRIOR FILING DATE: 2003-06-16
; PRIOR APPLICATION NUMBER: US 60/488,529
; PRIOR FILING DATE: 2003-07-18
; PRIOR APPLICATION NUMBER: US 60/491,156
; PRIOR FILING DATE: 2003-07-30
; PRIOR APPLICATION NUMBER: US 60/499,594
; PRIOR FILING DATE: 2003-09-02
; PRIOR APPLICATION NUMBER: US 60/506,332
; PRIOR FILING DATE: 2003-09-26
; NUMBER OF SEQ ID NOS: 136
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 26
; LENGTH: 764
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-10-757-262-26

Query Match 100.0%; Score 4004; DB 4; Length 764;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 764; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MTSPPSSPVFRLETLDGGQDGEADRGKLDGSGGLPPMESQFGEDRKFPAPQIRVNLNY 60
DB 1 MTSPPSSPVFRLETLDGGQDGEADRGKLDGSGGLPPMESQFGEDRKFPAPQIRVNLNY 60
QY 61 RKGTGASQDPNRFDRDLFNAVSRGVPEDLAGLPEYLSKTSKYLTDSEYTEGSTGKTCL 120
DB 61 RKGTGASQDPNRFDRDLFNAVSRGVPEDLAGLPEYLSKTSKYLTDSEYTEGSTGKTCL 120
QY 121 MKAVLNKDGVNACILPLQIDRDSGNPQPLVNAQCTDDYRSHSALHIAIEKRSQCCK 180
DB 121 MKAVLNKDGVNACILPLQIDRDSGNPQPLVNAQCTDDYRSHSALHIAIEKRSQCCK 180
QY 181 LLVENGANVHARACGRFFQGGTCTFYFGLPLSLAACTKQWDVSVYLLNPHQPASLOA 240
DB 181 LLVENGANVHARACGRFFQGGTCTFYFGLPLSLAACTKQWDVSVYLLNPHQPASLOA 240
QY 241 TDSQGNVTLHALVMSIDNSAENIALVTSMDGLLQAGARLCPTVQLEDIRNLQDLTPKL 300
DB 241 TDSQGNVTLHALVMSIDNSAENIALVTSMDGLLQAGARLCPTVQLEDIRNLQDLTPKL 300
QY 301 AAKEGKIEIPRHILQREFSGLSHLRKFTWCYGPVRVSLYDLASVDSCEENSVLIIAF 360
DB 301 AAKEGKIEIPRHILQREFSGLSHLRKFTWCYGPVRVSLYDLASVDSCEENSVLIIAF 360
QY 361 HCKSPHRRMVLLEPLNKLQAKWDLIPKFEINFLCNLYMIFITAVAHQPTLKKQAA 420
DB 361 HCKSPHRRMVLLEPLNKLQAKWDLIPKFEINFLCNLYMIFITAVAHQPTLKKQAA 420
QY 421 PHLKAEGVNSMLLTGHILILGGYLLVAGQLWYFRRHVFIIWISFIDSYPEILFLFQALL 480
DB 421 PHLKAEGVNSMLLTGHILILGGYLLVAGQLWYFRRHVFIIWISFIDSYPEILFLFQALL 480
QY 481 TVVSQVLCFLAIEWYLPPLVLSALVGLWNLNLYYTRGFQHTGIYSVMQIKVILRDLRFL 540
```

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DB 481 TVVSQVLCFLAIEWYLPPLVLSALVGLWNLNLYYTRGFQHTGIYSVMQIKVILRDLRFL 540
QY 541 IYLVFLFGFAVALVSLSQAWRPEAPTGNPATSVQPMQDEBGNQAQYRGILEASLEL 600
DB 541 IYLVFLFGFAVALVSLSQAWRPEAPTGNPATSVQPMQDEBGNQAQYRGILEASLEL 600
QY 601 FKFTTGMGELAFQEQQLHFRGMVLLLLAYVLLTYILLNMLTALMSETVNSVATDSWSIW 660
DB 601 FKFTTGMGELAFQEQQLHFRGMVLLLLAYVLLTYILLNMLTALMSETVNSVATDSWSIW 660
QY 661 KLOKALISVLEMENGYWCRKQKORAGVMLTVGTPDGSPPDERWCFRVEEVNNAWSEOTLPT 720
DB 661 KLOKALISVLEMENGYWCRKQKORAGVMLTVGTPDGSPPDERWCFRVEEVNNAWSEOTLPT 720
QY 721 LCEDPSGAGVPRTLENPVLASPPKEDGCGASEENYVPVQLQSN 764
DB 721 LCEDPSGAGVPRTLENPVLASPPKEDGCGASEENYVPVQLQSN 764

RESULT 6
US-10-473-127-761
; Sequence 761, Application US/10473127
; Publication No. US20040236091A1
; GENERAL INFORMATION:
; APPLICANT: Zycos Inc.
; TITLE OF INVENTION: TRANSLATIONAL PROFILING
; FILE REFERENCE: 08191-026W01
; CURRENT APPLICATION NUMBER: US/10/473,127
; CURRENT FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 60/279,495
; PRIOR FILING DATE: 2001-03-28
; PRIOR APPLICATION NUMBER: 60/292,544
; PRIOR FILING DATE: 2001-05-21
; PRIOR APPLICATION NUMBER: 60/310,801
; PRIOR FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: 60/326,370
; PRIOR FILING DATE: 2001-10-01
; PRIOR APPLICATION NUMBER: 60/336,780
; PRIOR FILING DATE: 2001-12-04
; PRIOR APPLICATION NUMBER: 60/358,985
; PRIOR FILING DATE: 2002-02-20
; NUMBER OF SEQ ID NOS: 2041
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 761
; LENGTH: 764
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-10-473-127-761

Query Match 100.0%; Score 4004; DB 5; Length 764;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 764; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MTSPPSSPVFRLETLDGGQDGEADRGKLDGSGGLPPMESQFGEDRKFPAPQIRVNLNY 60
DB 1 MTSPPSSPVFRLETLDGGQDGEADRGKLDGSGGLPPMESQFGEDRKFPAPQIRVNLNY 60
QY 61 RKGTGASQDPNRFDRDLFNAVSRGVPEDLAGLPEYLSKTSKYLTDSEYTEGSTGKTCL 120
DB 61 RKGTGASQDPNRFDRDLFNAVSRGVPEDLAGLPEYLSKTSKYLTDSEYTEGSTGKTCL 120
QY 121 MKAVLNKDGVNACILPLQIDRDSGNPQPLVNAQCTDDYRSHSALHIAIEKRSQCCK 180
DB 121 MKAVLNKDGVNACILPLQIDRDSGNPQPLVNAQCTDDYRSHSALHIAIEKRSQCCK 180
QY 181 LLVENGANVHARACGRFFQGGTCTFYFGLPLSLAACTKQWDVSVYLLNPHQPASLOA 240
DB 181 LLVENGANVHARACGRFFQGGTCTFYFGLPLSLAACTKQWDVSVYLLNPHQPASLOA 240
QY 241 TDSQGNVTLHALVMSIDNSAENIALVTSMDGLLQAGARLCPTVQLEDIRNLQDLTPKL 300
DB 241 TDSQGNVTLHALVMSIDNSAENIALVTSMDGLLQAGARLCPTVQLEDIRNLQDLTPKL 300
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QY 301 AAKGKIEIFRHILQREFSGLSHRKTEWCYGPVRVSLVDLASVDSCEANSVLEIIF 360
DB 301 AAKGKIEIFRHILQREFSGLSHRKTEWCYGPVRVSLVDLASVDSCEANSVLEIIF 360
QY 361 HCKSPHRHVMVLEPLNKLQAKWDLIIPKFPLNCLNIYMFIFTAVAYHPTLKKQAA 420
DB 361 HCKSPHRHVMVLEPLNKLQAKWDLIIPKFPLNCLNIYMFIFTAVAYHPTLKKQAA 420
QY 421 PHLKAEVGNMMLTGHILILGGIYLLVQWYFWRHVFVIWISFIDSYPFIFLFOALL 480
DB 421 PHLKAEVGNMMLTGHILILGGIYLLVQWYFWRHVFVIWISFIDSYPFIFLFOALL 480
QY 481 TVVSQVLCFLAIEWYLPPLVSALVGLWNLIIYTRGFQHTGIYSVMIOKVILRDLRPLL 540
DB 481 TVVSQVLCFLAIEWYLPPLVSALVGLWNLIIYTRGFQHTGIYSVMIOKVILRDLRPLL 540
QY 541 IYLVFLFGFAVALVSLQEAWRPEAPTPGNATESVQPMGQEDGNGAQYRGILEASLEL 600
DB 541 IYLVFLFGFAVALVSLQEAWRPEAPTPGNATESVQPMGQEDGNGAQYRGILEASLEL 600
QY 601 FKFTIGMELAFQEQHFRGMVLLLLAYVLLTYILLNMLIALSETVNSVATDSWSIW 660
DB 601 FKFTIGMELAFQEQHFRGMVLLLLAYVLLTYILLNMLIALSETVNSVATDSWSIW 660
QY 661 KLOKAIISVLEMGYWMCKKQKQAGVMLTVGTPDGSFDERWCFRVEEVNWSWEQTLPT 720
DB 661 KLOKAIISVLEMGYWMCKKQKQAGVMLTVGTPDGSFDERWCFRVEEVNWSWEQTLPT 720
QY 721 LCEDPSGAGVPRTELENPVLASPPKEDGSEENYVPVQLLQSN 764
DB 721 LCEDPSGAGVPRTELENPVLASPPKEDGSEENYVPVQLLQSN 764

RESULT 7
US-10-473-127-762
; Sequence 762, Application US/10473127
; Publication No. US20040236091A1
; GENERAL INFORMATION:
; APPLICANT: Zycos Inc.
; TITLE OF INVENTION: TRANSLATIONAL PROFILING
; FILE REFERENCE: 08191-026W01
; CURRENT APPLICATION NUMBER: US/10/473,127
; CURRENT FILING DATE: 2003-09-26
; PRIOR FILING DATE: 2001-03-28
; PRIOR APPLICATION NUMBER: 60/292,544
; PRIOR FILING DATE: 2001-05-21
; PRIOR APPLICATION NUMBER: 60/310,801
; PRIOR FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: 60/326,370
; PRIOR FILING DATE: 2001-10-01
; PRIOR APPLICATION NUMBER: 60/336,780
; PRIOR FILING DATE: 2001-12-04
; PRIOR APPLICATION NUMBER: 60/358,985
; PRIOR FILING DATE: 2002-02-20
; NUMBER OF SEQ ID NOS: 2041
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 762
; LENGTH: 764
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-473-127-762

Query Match 100.0%; Score 4004; DB 5; Length 764;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 764; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MTSFSSSPVFRLETLDCQEDGSADRGKLDGSLPPMESQFQEDRKEAPQIRVNLNY 60
DB 1 MTSFSSSPVFRLETLDCQEDGSADRGKLDGSLPPMESQFQEDRKEAPQIRVNLNY 60
QY 61 RKGTSQPDNRRDRLEFNAVSRGVPEDLAGLPEYLSKTSKYLTDSEYTGSGTKTCL 120
DB 61 RKGTSQPDNRRDRLEFNAVSRGVPEDLAGLPEYLSKTSKYLTDSEYTGSGTKTCL 120
```

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DB 61 RKGTSQPDNRRDRLEFNAVSRGVPEDLAGLPEYLSKTSKYLTDSEYTGSGTKTCL 120
QY 121 MKAVLNKDGWNACILPLQIQDRDSGNPQPLVNAQCTDDYVRGHSALHIAIEKSLQCVK 180
DB 121 MKAVLNKDGWNACILPLQIQDRDSGNPQPLVNAQCTDDYVRGHSALHIAIEKSLQCVK 180
QY 181 LLVENGANVHARACGRFFQGGQCTCFYFGEPLSLAECTQKQWVVSYLLENPHOPASLOA 240
DB 181 LLVENGANVHARACGRFFQGGQCTCFYFGEPLSLAECTQKQWVVSYLLENPHOPASLOA 240
QY 241 TDSQNTVLHALVMSIENSANIALVTSMYDGLLOAGARLCTPVOLEDIRNLQDLTPLKL 300
DB 241 TDSQNTVLHALVMSIENSANIALVTSMYDGLLOAGARLCTPVOLEDIRNLQDLTPLKL 300
QY 301 AAKGKIEIFRHILQREFSGLSHRKTEWCYGPVRVSLVDLASVDSCEANSVLEIIF 360
DB 301 AAKGKIEIFRHILQREFSGLSHRKTEWCYGPVRVSLVDLASVDSCEANSVLEIIF 360
QY 361 HCKSPHRHVMVLEPLNKLQAKWDLIIPKFPLNCLNIYMFIFTAVAYHPTLKKQAA 420
DB 361 HCKSPHRHVMVLEPLNKLQAKWDLIIPKFPLNCLNIYMFIFTAVAYHPTLKKQAA 420
QY 421 PHLKAEVGNMMLTGHILILGGIYLLVQWYFWRHVFVIWISFIDSYPFIFLFOALL 480
DB 421 PHLKAEVGNMMLTGHILILGGIYLLVQWYFWRHVFVIWISFIDSYPFIFLFOALL 480
QY 481 TVVSQVLCFLAIEWYLPPLVSALVGLWNLIIYTRGFQHTGIYSVMIOKVILRDLRPLL 540
DB 481 TVVSQVLCFLAIEWYLPPLVSALVGLWNLIIYTRGFQHTGIYSVMIOKVILRDLRPLL 540
QY 541 IYLVFLFGFAVALVSLQEAWRPEAPTPGNATESVQPMGQEDGNGAQYRGILEASLEL 600
DB 541 IYLVFLFGFAVALVSLQEAWRPEAPTPGNATESVQPMGQEDGNGAQYRGILEASLEL 600
QY 601 FKFTIGMELAFQEQHFRGMVLLLLAYVLLTYILLNMLIALSETVNSVATDSWSIW 660
DB 601 FKFTIGMELAFQEQHFRGMVLLLLAYVLLTYILLNMLIALSETVNSVATDSWSIW 660
QY 661 KLOKAIISVLEMGYWMCKKQKQAGVMLTVGTPDGSFDERWCFRVEEVNWSWEQTLPT 720
DB 661 KLOKAIISVLEMGYWMCKKQKQAGVMLTVGTPDGSFDERWCFRVEEVNWSWEQTLPT 720
QY 721 LCEDPSGAGVPRTELENPVLASPPKEDGSEENYVPVQLLQSN 764
DB 721 LCEDPSGAGVPRTELENPVLASPPKEDGSEENYVPVQLLQSN 764
```

```
RESULT 8
US-10-473-127-765
; Sequence 765, Application US/10473127
; Publication No. US20040236091A1
; GENERAL INFORMATION:
; APPLICANT: Zycos Inc.
; TITLE OF INVENTION: TRANSLATIONAL PROFILING
; FILE REFERENCE: 08191-026W01
; CURRENT APPLICATION NUMBER: US/10/473,127
; CURRENT FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 60/279,495
; PRIOR FILING DATE: 2001-03-28
; PRIOR APPLICATION NUMBER: 60/292,544
; PRIOR FILING DATE: 2001-05-21
; PRIOR APPLICATION NUMBER: 60/310,801
; PRIOR FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: 60/326,370
; PRIOR FILING DATE: 2001-10-01
; PRIOR APPLICATION NUMBER: 60/336,780
; PRIOR FILING DATE: 2001-12-04
; PRIOR APPLICATION NUMBER: 60/358,985
; PRIOR FILING DATE: 2002-02-20
; NUMBER OF SEQ ID NOS: 2041
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 765
; LENGTH: 764
```

```
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-473-127-765

Query Match      100.0%; Score 4004; DB 5; Length 764;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 764; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MTSPSSPVRLTLDGGQDGEADRGKLDGSGGLPPMESQFGEDRKFAPQIRVNLNY 60
Db 1 MTSPSSPVRLTLDGGQDGEADRGKLDGSGGLPPMESQFGEDRKFAPQIRVNLNY 60
Qy 61 RKTGASQDPNRPDRDLFNAVSRGVPEDLAGLPEYLSKYLTDSEYTEGSTGKTCL 120
Db 61 RKTGASQDPNRPDRDLFNAVSRGVPEDLAGLPEYLSKYLTDSEYTEGSTGKTCL 120
Qy 121 MKAVNLKDGVNACILPLLQIDRDSGNPQPLVNAQCTDDYYRGHSAHIAIEKRSIQCVK 180
Db 121 MKAVNLKDGVNACILPLLQIDRDSGNPQPLVNAQCTDDYYRGHSAHIAIEKRSIQCVK 180
Qy 181 LLVENGANVHARACGRFFQKGQGTCTFYFGEPLPLSLAACTKQWDVVSYLENPHQPASLOA 240
Db 181 LLVENGANVHARACGRFFQKGQGTCTFYFGEPLPLSLAACTKQWDVVSYLENPHQPASLOA 240
Qy 241 TDSQGNVTLHALVMSIDNSAENIALVTSMDYDGLLQAGARLCPTVQLEDIRNLQDLTPLKL 300
Db 241 TDSQGNVTLHALVMSIDNSAENIALVTSMDYDGLLQAGARLCPTVQLEDIRNLQDLTPLKL 300
Qy 301 AAKEGKIEIPRHILQREFSGLSHRKFTWCYGPVRVSLYDLASVDSCEENSVLIIAF 360
Db 301 AAKEGKIEIPRHILQREFSGLSHRKFTWCYGPVRVSLYDLASVDSCEENSVLIIAF 360
Qy 361 HCKSPHRHRMVVLEPLNKLQAKWDLII PKFFLNFCLNLIYMFIFTAVAYHOPTLKKQAA 420
Db 361 HCKSPHRHRMVVLEPLNKLQAKWDLII PKFFLNFCLNLIYMFIFTAVAYHOPTLKKQAA 420
Qy 421 PHLKAEVGNSMLLTGHILLLGGIYLLVGQWYFWRRHVFIWISFIDSYPFILLFQALL 480
Db 421 PHLKAEVGNSMLLTGHILLLGGIYLLVGQWYFWRRHVFIWISFIDSYPFILLFQALL 480
Qy 481 TVVSOVLCLFAIEWYLPPLVLSALVGLWNLIIYTRGFQHTGYISVMIQKVLRLDLARFLL 540
Db 481 TVVSOVLCLFAIEWYLPPLVLSALVGLWNLIIYTRGFQHTGYISVMIQKVLRLDLARFLL 540
Qy 541 IYLVFLFGFAVALVSLSQEAWRPEAPTGNATESVQPMQEQDEGNGAORYGILEASLEL 600
Db 541 IYLVFLFGFAVALVSLSQEAWRPEAPTGNATESVQPMQEQDEGNGAORYGILEASLEL 600
Qy 601 FKFTIGMGEALAFQELHFRGMVLLLLAYVLLTYILLNMLIALMSETVNSVATDSWSIW 660
Db 601 FKFTIGMGEALAFQELHFRGMVLLLLAYVLLTYILLNMLIALMSETVNSVATDSWSIW 660
Qy 661 KLOKAI SVLEMENGYWCRKQKQAGVMLTVGTGPDGSPDERWCPRVEEWNWASWEOTLPT 720
Db 661 KLOKAI SVLEMENGYWCRKQKQAGVMLTVGTGPDGSPDERWCPRVEEWNWASWEOTLPT 720
Qy 721 LCEDPGAGVPRTLNPNVLASPPKEDGDGASENYPVQLQSN 764
Db 721 LCEDPGAGVPRTLNPNVLASPPKEDGDGASENYPVQLQSN 764
```

```
RESULT 9
US-10-473-127-770
; Sequence 770, Application US/10473127
; Publication No. US20040236091A1
; GENERAL INFORMATION:
; APPLICANT: Zycos Inc.
; TITLE OF INVENTION: TRANSLATIONAL PROFILING
; FILE REFERENCE: 08191-026WO1
; CURRENT APPLICATION NUMBER: US/10/473,127
; CURRENT FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 60/279,495
; PRIOR FILING DATE: 2001-03-28
```

```
; PRIOR APPLICATION NUMBER: 60/292,544
; PRIOR FILING DATE: 2001-05-21
; PRIOR APPLICATION NUMBER: 60/310,801
; PRIOR FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: 60/326,370
; PRIOR FILING DATE: 2001-10-01
; PRIOR APPLICATION NUMBER: 60/336,780
; PRIOR FILING DATE: 2001-12-04
; PRIOR APPLICATION NUMBER: 60/358,985
; PRIOR FILING DATE: 2002-02-20
; NUMBER OF SEQ ID NOS: 2041
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 770
; LENGTH: 764
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-473-127-770
```

```
Query Match      100.0%; Score 4004; DB 5; Length 764;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 764; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MTSPSSPVRLTLDGGQDGEADRGKLDGSGGLPPMESQFGEDRKFAPQIRVNLNY 60
Db 1 MTSPSSPVRLTLDGGQDGEADRGKLDGSGGLPPMESQFGEDRKFAPQIRVNLNY 60
Qy 61 RKTGASQDPNRPDRDLFNAVSRGVPEDLAGLPEYLSKYLTDSEYTEGSTGKTCL 120
Db 61 RKTGASQDPNRPDRDLFNAVSRGVPEDLAGLPEYLSKYLTDSEYTEGSTGKTCL 120
Qy 121 MKAVNLKDGVNACILPLLQIDRDSGNPQPLVNAQCTDDYYRGHSAHIAIEKRSIQCVK 180
Db 121 MKAVNLKDGVNACILPLLQIDRDSGNPQPLVNAQCTDDYYRGHSAHIAIEKRSIQCVK 180
Qy 181 LLVENGANVHARACGRFFQKGQGTCTFYFGEPLPLSLAACTKQWDVVSYLENPHQPASLOA 240
Db 181 LLVENGANVHARACGRFFQKGQGTCTFYFGEPLPLSLAACTKQWDVVSYLENPHQPASLOA 240
Qy 241 TDSQGNVTLHALVMSIDNSAENIALVTSMDYDGLLQAGARLCPTVQLEDIRNLQDLTPLKL 300
Db 241 TDSQGNVTLHALVMSIDNSAENIALVTSMDYDGLLQAGARLCPTVQLEDIRNLQDLTPLKL 300
Qy 301 AAKEGKIEIPRHILQREFSGLSHRKFTWCYGPVRVSLYDLASVDSCEENSVLIIAF 360
Db 301 AAKEGKIEIPRHILQREFSGLSHRKFTWCYGPVRVSLYDLASVDSCEENSVLIIAF 360
Qy 361 HCKSPHRHRMVVLEPLNKLQAKWDLII PKFFLNFCLNLIYMFIFTAVAYHOPTLKKQAA 420
Db 361 HCKSPHRHRMVVLEPLNKLQAKWDLII PKFFLNFCLNLIYMFIFTAVAYHOPTLKKQAA 420
Qy 421 PHLKAEVGNSMLLTGHILLLGGIYLLVGQWYFWRRHVFIWISFIDSYPFILLFQALL 480
Db 421 PHLKAEVGNSMLLTGHILLLGGIYLLVGQWYFWRRHVFIWISFIDSYPFILLFQALL 480
Qy 481 TVVSOVLCLFAIEWYLPPLVLSALVGLWNLIIYTRGFQHTGYISVMIQKVLRLDLARFLL 540
Db 481 TVVSOVLCLFAIEWYLPPLVLSALVGLWNLIIYTRGFQHTGYISVMIQKVLRLDLARFLL 540
Qy 541 IYLVFLFGFAVALVSLSQEAWRPEAPTGNATESVQPMQEQDEGNGAORYGILEASLEL 600
Db 541 IYLVFLFGFAVALVSLSQEAWRPEAPTGNATESVQPMQEQDEGNGAORYGILEASLEL 600
Qy 601 FKFTIGMGEALAFQELHFRGMVLLLLAYVLLTYILLNMLIALMSETVNSVATDSWSIW 660
Db 601 FKFTIGMGEALAFQELHFRGMVLLLLAYVLLTYILLNMLIALMSETVNSVATDSWSIW 660
Qy 661 KLOKAI SVLEMENGYWCRKQKQAGVMLTVGTGPDGSPDERWCPRVEEWNWASWEOTLPT 720
Db 661 KLOKAI SVLEMENGYWCRKQKQAGVMLTVGTGPDGSPDERWCPRVEEWNWASWEOTLPT 720
Qy 721 LCEDPGAGVPRTLNPNVLASPPKEDGDGASENYPVQLQSN 764
Db 721 LCEDPGAGVPRTLNPNVLASPPKEDGDGASENYPVQLQSN 764
```

RESULT 10

US-10-473-127-772
; Sequence 772, Application US/10473127
; Publication No. US20040236091A1
; GENERAL INFORMATION:
; APPLICANT: Zycos Inc.
; TITLE OF INVENTION: TRANSLATIONAL PROFILING
; FILE REFERENCE: 08191-026W01
; CURRENT APPLICATION NUMBER: US/10/473,127
; CURRENT FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 60/279,495
; PRIOR FILING DATE: 2001-03-28
; PRIOR APPLICATION NUMBER: 60/292,544
; PRIOR FILING DATE: 2001-05-21
; PRIOR APPLICATION NUMBER: 60/310,801
; PRIOR FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: 60/326,370
; PRIOR FILING DATE: 2001-10-01
; PRIOR APPLICATION NUMBER: 60/336,780
; PRIOR FILING DATE: 2001-12-04
; PRIOR APPLICATION NUMBER: 60/358,985
; PRIOR FILING DATE: 2002-02-20
; NUMBER OF SEQ ID NOS: 2041
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 772
; LENGTH: 764
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-473-127-772

Query Match 100.0%; Score 4004; DB 5; Length 764;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 764; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MTPSSSPVFRLETLDCGQEDGSEADRGKLDGSGLPMSQFQGEDRKFPQIRVNLNY 60
Db 1 MTPSSSPVFRLETLDCGQEDGSEADRGKLDGSGLPMSQFQGEDRKFPQIRVNLNY 60
Qy 61 RKTGASQPPNRRDRDLFNAVSRGVPEDLAGLPEYLSKTSKYLTDSEYTEGSTGKTCL 120
Db 61 RKTGASQPPNRRDRDLFNAVSRGVPEDLAGLPEYLSKTSKYLTDSEYTEGSTGKTCL 120
Qy 121 MKAVLNLDGYNACILPLQLIDRDSGNPQPLVNAQCTDDYRHSALHIAIEKESLQCVK 180
Db 121 MKAVLNLDGYNACILPLQLIDRDSGNPQPLVNAQCTDDYRHSALHIAIEKESLQCVK 180
Qy 181 LLVENGANVHARACGRFFQKQGTCTFYFGEPLSLAACTKQMDVSVYLLNPHQPASLOA 240
Db 181 LLVENGANVHARACGRFFQKQGTCTFYFGEPLSLAACTKQMDVSVYLLNPHQPASLOA 240
Qy 241 TDSQNTVLHALVMSDNSAENIALVTSMYDGLLOAGARLCTPTVQLEDIRNLQDLTPLK 300
Db 241 TDSQNTVLHALVMSDNSAENIALVTSMYDGLLOAGARLCTPTVQLEDIRNLQDLTPLK 300
Qy 301 AAKEGKIEIPRHILQREFSGLSLHLSRKFTWCYGPVRVSLYDLASVDSCEANSVLEIIAF 360
Db 301 AAKEGKIEIPRHILQREFSGLSLHLSRKFTWCYGPVRVSLYDLASVDSCEANSVLEIIAF 360
Qy 361 HCKSPHRRMVLVLEPLNKLQAKWDLIIPKFFLNFLCNLIYMFIFTAVAHQPTLKQAA 420
Db 361 HCKSPHRRMVLVLEPLNKLQAKWDLIIPKFFLNFLCNLIYMFIFTAVAHQPTLKQAA 420
Qy 421 PHLKAEGVNSMLTGHILILGGIYLLVQGLWYFWRHVFVWISFIDSYPEILFQALL 480
Db 421 PHLKAEGVNSMLTGHILILGGIYLLVQGLWYFWRHVFVWISFIDSYPEILFQALL 480
Qy 481 TVVSOVLCFIAEWLPLVLSALVGLWNLIIYTRGQHTGIGYSVMQKVLRLDLRFL 540
Db 481 TVVSOVLCFIAEWLPLVLSALVGLWNLIIYTRGQHTGIGYSVMQKVLRLDLRFL 540
Qy 541 IYLVFLFGFAVALVSLSQEAWRPEAPTGNATESVQPMEGQEDGNGAQYRGILEASLEL 600

Db 541 IYLVFLFGFAVALVSLSQEAWRPEAPTGNATESVQPMEGQEDGNGAQYRGILEASLEL 600
Qy 601 PKPTIGMCELAFQQLHFRGMVLLIAYVLLTYILLNMLIALMSETVNSVATDSWSIW 660
Db 601 PKPTIGMCELAFQQLHFRGMVLLIAYVLLTYILLNMLIALMSETVNSVATDSWSIW 660
Qy 661 KLOKAIISVLEMGYVWCRKKORAGVMLTVGTKPDGSPDERWCPRVVEVNNASWEQTLP 720
Db 661 KLOKAIISVLEMGYVWCRKKORAGVMLTVGTKPDGSPDERWCPRVVEVNNASWEQTLP 720
Qy 721 LCEDPGAGVPRTLLENPVLASPPKEDGSEENYVVPVQLLQSN 764
Db 721 LCEDPGAGVPRTLLENPVLASPPKEDGSEENYVVPVQLLQSN 764

RESULT 11

US-10-473-127-776
; Sequence 776, Application US/10473127
; Publication No. US20040236091A1
; GENERAL INFORMATION:
; APPLICANT: Zycos Inc.
; TITLE OF INVENTION: TRANSLATIONAL PROFILING
; FILE REFERENCE: 08191-026W01
; CURRENT APPLICATION NUMBER: US/10/473,127
; CURRENT FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 60/279,495
; PRIOR FILING DATE: 2001-03-28
; PRIOR APPLICATION NUMBER: 60/292,544
; PRIOR FILING DATE: 2001-05-21
; PRIOR APPLICATION NUMBER: 60/310,801
; PRIOR FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: 60/326,370
; PRIOR FILING DATE: 2001-10-01
; PRIOR APPLICATION NUMBER: 60/336,780
; PRIOR FILING DATE: 2001-12-04
; PRIOR APPLICATION NUMBER: 60/358,985
; PRIOR FILING DATE: 2002-02-20
; NUMBER OF SEQ ID NOS: 2041
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 776
; LENGTH: 764
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-473-127-776

Query Match 100.0%; Score 4004; DB 5; Length 764;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 764; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MTPSSSPVFRLETLDCGQEDGSEADRGKLDGSGLPMSQFQGEDRKFPQIRVNLNY 60
Db 1 MTPSSSPVFRLETLDCGQEDGSEADRGKLDGSGLPMSQFQGEDRKFPQIRVNLNY 60
Qy 61 RKTGASQPPNRRDRDLFNAVSRGVPEDLAGLPEYLSKTSKYLTDSEYTEGSTGKTCL 120
Db 61 RKTGASQPPNRRDRDLFNAVSRGVPEDLAGLPEYLSKTSKYLTDSEYTEGSTGKTCL 120
Qy 121 MKAVLNLDGYNACILPLQLIDRDSGNPQPLVNAQCTDDYRHSALHIAIEKESLQCVK 180
Db 121 MKAVLNLDGYNACILPLQLIDRDSGNPQPLVNAQCTDDYRHSALHIAIEKESLQCVK 180
Qy 181 LLVENGANVHARACGRFFQKQGTCTFYFGEPLSLAACTKQMDVSVYLLNPHQPASLOA 240
Db 181 LLVENGANVHARACGRFFQKQGTCTFYFGEPLSLAACTKQMDVSVYLLNPHQPASLOA 240
Qy 241 TDSQNTVLHALVMSDNSAENIALVTSMYDGLLOAGARLCTPTVQLEDIRNLQDLTPLK 300
Db 241 TDSQNTVLHALVMSDNSAENIALVTSMYDGLLOAGARLCTPTVQLEDIRNLQDLTPLK 300
Qy 301 AAKEGKIEIPRHILQREFSGLSLHLSRKFTWCYGPVRVSLYDLASVDSCEANSVLEIIAF 360
Db 301 AAKEGKIEIPRHILQREFSGLSLHLSRKFTWCYGPVRVSLYDLASVDSCEANSVLEIIAF 360


```
QY 361 HCKSPHRHMVWVLEPLNKLQAKWDLILPKFFLNFCLNIYMFIFTAVAYHQTLLKQAA 420
Db 361 HCKSPHRHMVWVLEPLNKLQAKWDLILPKFFLNFCLNIYMFIFTAVAYHQTLLKQAA 420
QY 421 PHLKAEVGNMMLTGHILILGGIYLLVGQWLYFWRRHVFIWISFIDSFEILFLFOALL 480
Db 421 PHLKAEVGNMMLTGHILILGGIYLLVGQWLYFWRRHVFIWISFIDSFEILFLFOALL 480
QY 481 TVVSQVCLFALTEWYLLPLLSALVGLWNLIIYTRGFQHTGIYSVMIOKVILLRDLRLFL 540
Db 481 TVVSQVCLFALTEWYLLPLLSALVGLWNLIIYTRGFQHTGIYSVMIOKVILLRDLRLFL 540
QY 541 IYLVFLFGFAVALVLSQEAWRPEAFTGNATESVQPMGQDEGNGAQYRGILEASLEL 600
Db 541 IYLVFLFGFAVALVLSQEAWRPEAFTGNATESVQPMGQDEGNGAQYRGILEASLEL 600
QY 601 FKFTIGMGEALFOEQHFRGMVLLLLAYVLLTYILLNMLIALMSETVNSVATDSWSIW 660
Db 601 FKFTIGMGEALFOEQHFRGMVLLLLAYVLLTYILLNMLIALMSETVNSVATDSWSIW 660
QY 661 KLOKALSIVLEMENGYWCKKQKQAGVMTVGTGKPDGSPDERWCFCRVEEVNMAWSEOTLPT 720
Db 661 KLOKALSIVLEMENGYWCKKQKQAGVMTVGTGKPDGSPDERWCFCRVEEVNMAWSEOTLPT 720
QY 721 LCEDPSGAGVPRTLENPNVLASPPKEDGEGASEENYVPVQLQSN 764
Db 721 LCEDPSGAGVPRTLENPNVLASPPKEDGEGASEENYVPVQLQSN 764
```

RESULT 12

```
US-10-473-127-779
; Sequence 779, Application US/10473127
; Publication No. US20040236091A1
; GENERAL INFORMATION:
; APPLICANT: Zycos Inc.
; TITLE OF INVENTION: TRANSLATIONAL PROFILING
; FILE REFERENCE: 08191-026W01
; CURRENT APPLICATION NUMBER: US/10/473,127
; CURRENT FILING DATE: 2003-09-26
; PRIOR APPLICATION NUMBER: 60/279,495
; PRIOR FILING DATE: 2001-03-28
; PRIOR APPLICATION NUMBER: 60/292,544
; PRIOR FILING DATE: 2001-05-21
; PRIOR APPLICATION NUMBER: 60/310,801
; PRIOR FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: 60/326,370
; PRIOR FILING DATE: 2001-10-01
; PRIOR APPLICATION NUMBER: 60/336,780
; PRIOR FILING DATE: 2001-12-04
; PRIOR APPLICATION NUMBER: 60/358,985
; PRIOR FILING DATE: 2002-02-20
; NUMBER OF SEQ ID NOS: 2041
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 779
; LENGTH: 764
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-473-127-779
```

```
Query Match 100.0%; Score 4004; DB 5; Length 764;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 764; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 1 MTSFSSSPVRLTLDGQDGEADRGKLDGSLGPPMESQFGEDRKFAPIRVNLNY 60
Db 1 MTSFSSSPVRLTLDGQDGEADRGKLDGSLGPPMESQFGEDRKFAPIRVNLNY 60
QY 61 RKGAGASQPPNFRDRLFNASRGVPEDLAGLPEYLSKTYLTDSEYTGSTGKTCL 120
Db 61 RKGAGASQPPNFRDRLFNASRGVPEDLAGLPEYLSKTYLTDSEYTGSTGKTCL 120
QY 121 MKAVLNKDGVNACILPLQLDRDSGNPQPLVNAQCTDDYYRHSALHIAIKRSQCCKV 180
```

```
Db 121 MKAVLNKDGVNACILPLQLDRDSGNPQPLVNAQCTDDYYRHSALHIAIKRSQCCKV 180
QY 181 LLVENGANVHARACGRFFQKGGCTCFYFGEPLSLAACTKQWDVSYLLENPHQPASLQA 240
Db 181 LLVENGANVHARACGRFFQKGGCTCFYFGEPLSLAACTKQWDVSYLLENPHQPASLQA 240
QY 241 TDSQNTVHLVMTSDNSAENIALVTSMDGLLQAGARLCPVQLEDIRNLQDITPLKL 300
Db 241 TDSQNTVHLVMTSDNSAENIALVTSMDGLLQAGARLCPVQLEDIRNLQDITPLKL 300
QY 301 AAKEKIKIFRHILOREFSGLSHRKFTWCYGPVRVSLYDLASVDSCEENSVLIIAF 360
Db 301 AAKEKIKIFRHILOREFSGLSHRKFTWCYGPVRVSLYDLASVDSCEENSVLIIAF 360
QY 361 HCKSPHRHMVWVLEPLNKLQAKWDLILPKFFLNFCLNIYMFIFTAVAYHQTLLKQAA 420
Db 361 HCKSPHRHMVWVLEPLNKLQAKWDLILPKFFLNFCLNIYMFIFTAVAYHQTLLKQAA 420
QY 421 PHLKAEVGNMMLTGHILILGGIYLLVGQWLYFWRRHVFIWISFIDSFEILFLFOALL 480
Db 421 PHLKAEVGNMMLTGHILILGGIYLLVGQWLYFWRRHVFIWISFIDSFEILFLFOALL 480
QY 481 TVVSQVCLFALTEWYLLPLLSALVGLWNLIIYTRGFQHTGIYSVMIOKVILLRDLRLFL 540
Db 481 TVVSQVCLFALTEWYLLPLLSALVGLWNLIIYTRGFQHTGIYSVMIOKVILLRDLRLFL 540
QY 541 IYLVFLFGFAVALVLSQEAWRPEAFTGNATESVQPMGQDEGNGAQYRGILEASLEL 600
Db 541 IYLVFLFGFAVALVLSQEAWRPEAFTGNATESVQPMGQDEGNGAQYRGILEASLEL 600
QY 601 FKFTIGMGEALFOEQHFRGMVLLLLAYVLLTYILLNMLIALMSETVNSVATDSWSIW 660
Db 601 FKFTIGMGEALFOEQHFRGMVLLLLAYVLLTYILLNMLIALMSETVNSVATDSWSIW 660
QY 661 KLOKALSIVLEMENGYWCKKQKQAGVMTVGTGKPDGSPDERWCFCRVEEVNMAWSEOTLPT 720
Db 661 KLOKALSIVLEMENGYWCKKQKQAGVMTVGTGKPDGSPDERWCFCRVEEVNMAWSEOTLPT 720
QY 721 LCEDPSGAGVPRTLENPNVLASPPKEDGEGASEENYVPVQLQSN 764
Db 721 LCEDPSGAGVPRTLENPNVLASPPKEDGEGASEENYVPVQLQSN 764
```

RESULT 13

```
US-10-915-017-36
; Sequence 36, Application US/10915017
; Publication No. US20050095650A1
; GENERAL INFORMATION:
; APPLICANT: Julius, David J.
; APPLICANT: Caterina, Michael J.
; APPLICANT: Brake, Anthony J.
; TITLE OF INVENTION: NUCLEIC ACID SEQUENCES ENCODING
; TITLE OF INVENTION: CAPSAICIN RECEPTOR AND CAPSAICIN RECEPTOR-RELATED
; TITLE OF INVENTION: POLYPEPTIDES AND USES THEREOF
; FILE REFERENCE: UCSF-084CON2
; CURRENT APPLICATION NUMBER: US/10/915,017
; CURRENT FILING DATE: 2004-08-09
; PRIOR APPLICATION NUMBER: 09/978,303
; PRIOR FILING DATE: 2001-10-15
; PRIOR APPLICATION NUMBER: 09/235,451
; PRIOR FILING DATE: 1999-01-22
; PRIOR APPLICATION NUMBER: 60/072,151
; PRIOR FILING DATE: 1998-01-22
; NUMBER OF SEQ ID NOS: 48
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 36
; LENGTH: 764
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-915-017-36
```

```
Query Match 100.0%; Score 4004; DB 5; Length 764;
```



```

Best Local Similarity 100.0%; Pred. No. 0;
Matches 764; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MTSPPSPVPRLETLGGQEDGSEADRGKLDGSGLPMPMESQFQGEDRKFPQIRVNLNY 60
Db 1 MTSPPSPVPRLETLGGQEDGSEADRGKLDGSGLPMPMESQFQGEDRKFPQIRVNLNY 60

Qy 61 RKTGASQDPNRPDRDLFNAVSRGVPEDLAGLPEYLSKTYLTDSEYTEGSTGTCL 120
Db 61 RKTGASQDPNRPDRDLFNAVSRGVPEDLAGLPEYLSKTYLTDSEYTEGSTGTCL 120

Qy 121 MKAVLNLDGWNACILPQLQIDRDSGNPQLVNAQCTDDYRHSALHIAIEKRSLOCVK 180
Db 121 MKAVLNLDGWNACILPQLQIDRDSGNPQLVNAQCTDDYRHSALHIAIEKRSLOCVK 180

Qy 181 LLVENGANVHARACGRFFQKGQTCFYFGLPLSLAACTQWDVSVYLLNPHQASLOA 240
Db 181 LLVENGANVHARACGRFFQKGQTCFYFGLPLSLAACTQWDVSVYLLNPHQASLOA 240

Qy 241 TDSQNTVLHALVMSDNSAENIALVTSMYDGLLQAGARLCTVQLEDIRNLQDLTPKL 300
Db 241 TDSQNTVLHALVMSDNSAENIALVTSMYDGLLQAGARLCTVQLEDIRNLQDLTPKL 300

Qy 301 AAKEGKIEIPRHILQREFSGLSHLRKFTWCYGPVRVSYLDASVDSCEANSVLEIIAF 360
Db 301 AAKEGKIEIPRHILQREFSGLSHLRKFTWCYGPVRVSYLDASVDSCEANSVLEIIAF 360

Qy 361 HCKSPHRRMVVLEPLNKLQAKWDLIPKFFLNFLCNLIYMFIFTAVAHQPTLKQAA 420
Db 361 HCKSPHRRMVVLEPLNKLQAKWDLIPKFFLNFLCNLIYMFIFTAVAHQPTLKQAA 420

Qy 421 PHLKAEGVNSMLTGHILLLGGIYLLVGQLWTFWRRHVFIIWISFIDSYPEILFLFOALL 480
Db 421 PHLKAEGVNSMLTGHILLLGGIYLLVGQLWTFWRRHVFIIWISFIDSYPEILFLFOALL 480

Qy 481 TVVSQVLCFLAIEWYLLPVSALVGLWNLIIYTRGFQHTGIYSVMIOKVILRDLLRFL 540
Db 481 TVVSQVLCFLAIEWYLLPVSALVGLWNLIIYTRGFQHTGIYSVMIOKVILRDLLRFL 540

Qy 541 IYLVFLFGFAVALVSLSQEAWRPEAPTGNATESVQPMQEDGEGNAQYRGILEASLEL 600
Db 541 IYLVFLFGFAVALVSLSQEAWRPEAPTGNATESVQPMQEDGEGNAQYRGILEASLEL 600

Qy 601 FKFTIGMGLAFOEQLHFRGMVLLIIAYVLLTYLILNLIAMSETVNSVATDSWSIW 660
Db 601 FKFTIGMGLAFOEQLHFRGMVLLIIAYVLLTYLILNLIAMSETVNSVATDSWSIW 660

Qy 661 KLOKAI SVLEMENGYWCRKKQKQAGVNLTVGTPDGSFDRWCFRVEEVNWSWEQTLPT 720
Db 661 KLOKAI SVLEMENGYWCRKKQKQAGVNLTVGTPDGSFDRWCFRVEEVNWSWEQTLPT 720

Qy 721 LCEDPGAGVPRTELENPVLASPPKEDBDGASEENYVPVQLQSN 764
Db 721 LCEDPGAGVPRTELENPVLASPPKEDBDGASEENYVPVQLQSN 764

```

RESULT 14

```

US-11-013-090-5
; Sequence 5, Application US/11013090
; Publication No. US20050158827A1
; GENERAL INFORMATION:
; APPLICANT: Millennium Pharmaceuticals, Inc.
; APPLICANT: Curfiss, Rory A.J.
; TITLE OF INVENTION: NOVEL MEMBERS OF THE CAPSAICIN/VANILLOID
; FILE OF INVENTION: RECEPTOR FAMILY OF PROTEINS AND USES THEREOF
; FILE REFERENCE: MP198-093P2RCP3DVIAM
; CURRENT APPLICATION NUMBER: US/11/013,090
; CURRENT FILING DATE: 2004-12-15
; PRIOR APPLICATION NUMBER: US 09/439,165
; PRIOR FILING DATE: 1999-11-12
; PRIOR APPLICATION NUMBER: US 09/421,134
; PRIOR FILING DATE: 1999-10-19
; PRIOR APPLICATION NUMBER: US 09/259,633

```

```

; PRIOR FILING DATE: 1999-02-26
; PRIOR APPLICATION NUMBER: US 60/114,078
; PRIOR FILING DATE: 1998-12-28
; PRIOR APPLICATION NUMBER: US 60/108,322
; PRIOR FILING DATE: 1998-11-13
; NUMBER OF SEQ ID NOS: 23
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 5
; LENGTH: 764
; TYPE: PRT
; ORGANISM: Homo Sapiens
; US-11-013-090-5

Query Match 100.0%; Score 4004; DB 6; Length 764;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 764; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MTSPPSPVPRLETLGGQEDGSEADRGKLDGSGLPMPMESQFQGEDRKFPQIRVNLNY 60
Db 1 MTSPPSPVPRLETLGGQEDGSEADRGKLDGSGLPMPMESQFQGEDRKFPQIRVNLNY 60

Qy 61 RKTGASQDPNRPDRDLFNAVSRGVPEDLAGLPEYLSKTYLTDSEYTEGSTGTCL 120
Db 61 RKTGASQDPNRPDRDLFNAVSRGVPEDLAGLPEYLSKTYLTDSEYTEGSTGTCL 120

Qy 121 MKAVLNLDGWNACILPQLQIDRDSGNPQLVNAQCTDDYRHSALHIAIEKRSLOCVK 180
Db 121 MKAVLNLDGWNACILPQLQIDRDSGNPQLVNAQCTDDYRHSALHIAIEKRSLOCVK 180

Qy 181 LLVENGANVHARACGRFFQKGQTCFYFGLPLSLAACTQWDVSVYLLNPHQASLOA 240
Db 181 LLVENGANVHARACGRFFQKGQTCFYFGLPLSLAACTQWDVSVYLLNPHQASLOA 240

Qy 241 TDSQNTVLHALVMSDNSAENIALVTSMYDGLLQAGARLCTVQLEDIRNLQDLTPKL 300
Db 241 TDSQNTVLHALVMSDNSAENIALVTSMYDGLLQAGARLCTVQLEDIRNLQDLTPKL 300

Qy 301 AAKEGKIEIPRHILQREFSGLSHLRKFTWCYGPVRVSYLDASVDSCEANSVLEIIAF 360
Db 301 AAKEGKIEIPRHILQREFSGLSHLRKFTWCYGPVRVSYLDASVDSCEANSVLEIIAF 360

Qy 361 HCKSPHRRMVVLEPLNKLQAKWDLIPKFFLNFLCNLIYMFIFTAVAHQPTLKQAA 420
Db 361 HCKSPHRRMVVLEPLNKLQAKWDLIPKFFLNFLCNLIYMFIFTAVAHQPTLKQAA 420

Qy 421 PHLKAEGVNSMLTGHILLLGGIYLLVGQLWTFWRRHVFIIWISFIDSYPEILFLFOALL 480
Db 421 PHLKAEGVNSMLTGHILLLGGIYLLVGQLWTFWRRHVFIIWISFIDSYPEILFLFOALL 480

Qy 481 TVVSQVLCFLAIEWYLLPVSALVGLWNLIIYTRGFQHTGIYSVMIOKVILRDLLRFL 540
Db 481 TVVSQVLCFLAIEWYLLPVSALVGLWNLIIYTRGFQHTGIYSVMIOKVILRDLLRFL 540

Qy 541 IYLVFLFGFAVALVSLSQEAWRPEAPTGNATESVQPMQEDGEGNAQYRGILEASLEL 600
Db 541 IYLVFLFGFAVALVSLSQEAWRPEAPTGNATESVQPMQEDGEGNAQYRGILEASLEL 600

Qy 601 FKFTIGMGLAFOEQLHFRGMVLLIIAYVLLTYLILNLIAMSETVNSVATDSWSIW 660
Db 601 FKFTIGMGLAFOEQLHFRGMVLLIIAYVLLTYLILNLIAMSETVNSVATDSWSIW 660

Qy 661 KLOKAI SVLEMENGYWCRKKQKQAGVNLTVGTPDGSFDRWCFRVEEVNWSWEQTLPT 720
Db 661 KLOKAI SVLEMENGYWCRKKQKQAGVNLTVGTPDGSFDRWCFRVEEVNWSWEQTLPT 720

Qy 721 LCEDPGAGVPRTELENPVLASPPKEDBDGASEENYVPVQLQSN 764
Db 721 LCEDPGAGVPRTELENPVLASPPKEDBDGASEENYVPVQLQSN 764

RESULT 15
US-10-168-651-3
; Sequence 3, Application US/10168651

```

Publication No. US20030171275A1
GENERAL INFORMATION:
APPLICANT: INCYTE GENOMICS, INC.
APPLICANT: BAUGHN, Mariah R.
APPLICANT: BURFORD, Neil
APPLICANT: AU-YOUNG, Janice
APPLICANT: LU, Young Aina M.
APPLICANT: YANG, Junming
APPLICANT: REDDY, Roopa
APPLICANT: LAL, Preeti
APPLICANT: HILLMAN, Jennifer L.
APPLICANT: AZIMZAI, Yalda
APPLICANT: YUE, Henry
APPLICANT: NGUYEN, Dannie B.
APPLICANT: YAO, Monique G.
APPLICANT: GANDHI, Ameani R.
APPLICANT: TANG, Y. Tom
APPLICANT: KHAN, Farrah A.
TITLE OF INVENTION: TRANSPORTERS AND ION CHANNELS
FILE REFERENCE: PI-0005 PCT
CURRENT APPLICATION NUMBER: US/10/168,651
CURRENT FILING DATE: 2002-06-21
PRIOR APPLICATION NUMBER: 60/172,000; 60/176,083; 60/177,332; 60/178,572; 60/179,758;
60/181,625
PRIOR FILING DATE: 1999-12-23; 2000-01-14; 2000-01-21; 2000-01-28; 2000-02-02;
2000-02-10
NUMBER OF SEQ ID NOS: 54
SOFTWARE: PERL Program
SEQ ID NO 3
LENGTH: 764
TYPE: PRT
ORGANISM: Homo sapiens
NAME/KEY: misc feature
OTHER INFORMATION: Incyte ID No. US20030171275A1 2446438CD1
US-10-168-651-3

Query Match 99.9%; Score 3998; DB 4; Length 764;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 763; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1 MTSPPSSPVRLTDLGGQDGEADRGKLDGSGLPMPMESQFGEDRKFAPQIRVNLNY 60
DB 1 MTSPPSSPVRLTDLGGQDGEADRGKLDGSGLPMPMESQFGEDRKFAPQIRVNLNY 60
QY 61 RKGTGASQDPNRPDRDLNFAVSRGVPDLGLPEYLSKTYLTDSEYTEGSTGTCL 120
DB 61 RKGTGASQDPNRPDRDLNFAVSRGVPDLGLPEYLSKTYLTDSEYTEGSTGTCL 120
QY 121 MKAVLNLKQGVNACILPLLQIDRDSGNPQPLVNAQCTDDYYRSHSALHIAIEKRSIQCVK 180
DB 121 MKAVLNLKQGVNACILPLLQIDRDSGNPQPLVNAQCTDDYYRSHSALHIAIEKRSIQCVK 180
QY 181 LLVENGANVHARACGRPFQKGQTCFYFGBELPLSLAACTQWDVSVYLLNPHQASLOA 240
DB 181 LLVENGANVHARACGRPFQKGQTCFYFGBELPLSLAACTQWDVSVYLLNPHQASLOA 240
QY 241 TDSQGNVTLHALVMI SDNSAENIALVTSMDYDGLLQAGARLCTVQLEDIRNLQDLTPLKL 300
DB 241 TDSQGNVTLHALVMI SDNSAENIALVTSMDYDGLLQAGARLCTVQLEDIRNLQDLTPLKL 300
QY 301 AAKEGKTEIFRHILQREFSGLSHLRKFTWCYGPVRVSLYDLASVDSCENSVELEIAF 360
DB 301 AAKEGKTEIFRHILQREFSGLSHLRKFTWCYGPVRVSLYDLASVDSCENSVELEIAF 360
QY 361 HCKSPHRRMVVLEPLNKLLOAKWDLILPKFFNLNLIYMFIFTAVAYHQTLLKQAA 420
DB 361 HCKSPHRRMVVLEPLNKLLOAKWDLILPKFFNLNLIYMFIFTAVAYHQTLLKQAA 420
QY 421 PHLKAEGVNSMLLTGHTLILLLGGIYLLVQGLWYFWRHVFIIWISFIDSIFEILLFQALL 480
DB 421 PHLKAEGVNSMLLTGHTLILLLGGIYLLVQGLWYFWRHVFIIWISFIDSIFEILLFQALL 480

QY 481 TVVSQVLCFLAIEWYLPLLVLSALVILGWLNLIIYTRGFQHTGIYSVMIQVILRDLRLFL 540
DB 481 TVVSQVLCFLAIEWYLPLLVLSALVILGWLNLIIYTRGFQHTGIYSVMIQVILRDLRLFL 540
QY 541 IYLVFLFGFAVALVSLSOEAWRPEAPTGNATESVQPMEGQDEGNGAOYRGILEASLEL 600
DB 541 IYLVFLFGFAVALVSLSOEAWRPEAPTGNATESVQPMEGQDEGNGAOYRGILEASLEL 600
QY 601 FKFTTGMGELAFQEQHLHFRGMVLLLLAYVLLTYILLNMLIALMSETVNSVATDSWSIW 660
DB 601 FKFTTGMGELAFQEQHLHFRGMVLLLLAYVLLTYILLNMLIALMSETVNSVATDSWSIW 660
QY 661 KLQKAI SVLEMENGYWCRKQORAGVMLTVGTPDGSPDERWCFRVEEVNWNASWEQTLPT 720
DB 661 KLQKAI SVLEMENGYWCRKQORAGVMLTVGTPDGSPDERWCFRVEEVNWNASWEQTLPT 720
QY 721 LCEDPSGAGVPRTLNPNVLASPPKDEDEDGASEENYVPVQLQSN 764
DB 721 LCEDPSGAGVPRTLNPNVLASPPKDEDEDGASEENYVPVQLQSN 764

Search completed: February 18, 2006, 03:50:36
Job time : 172 secs

GenCore version 5.1.7
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OM protein - proteasp search, using sw model

Run on: February 18, 2006, 03:47:55 ; Search time 18 Seconds
(without alignments)
603.332 Million cell updates/sec

Title: US-09-445-614B-2
Perfect score: 4004
Sequence: 1 MTSFSSPVRLFTLDGGQE.....EEDGASENYVPVQLQSN 764

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 107819 seqs, 14214640 residues

Total number of hits satisfying chosen parameters: 107819

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA New:

- 1: /cgn2_6/ptodata/1/pubpaa/US08_NEW_PUB.pep.*
- 2: /cgn2_6/ptodata/1/pubpaa/US06_NEW_PUB.pep.*
- 3: /cgn2_6/ptodata/1/pubpaa/US07_NEW_PUB.pep.*
- 4: /cgn2_6/ptodata/1/pubpaa/PCT_NEW_PUB.pep.*
- 5: /cgn2_6/ptodata/1/pubpaa/US09_NEW_PUB.pep.*
- 6: /cgn2_6/ptodata/1/pubpaa/US10_NEW_PUB.pep.*
- 7: /cgn2_6/ptodata/1/pubpaa/US11_NEW_PUB.pep.*
- 8: /cgn2_6/ptodata/1/pubpaa/US60_NEW_PUB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | DB ID | Description |
|------------|--------|-------------|--------|----------------------|-------------------|
| 1 | 1653.5 | 41.3 | 839 | 7 US-11-076-431-6 | Sequence 6, Appli |
| 2 | 1648.5 | 41.2 | 839 | 7 US-11-076-431-8 | Sequence 8, Appli |
| 3 | 1639.5 | 40.9 | 839 | 7 US-11-076-431-2 | Sequence 2, Appli |
| 4 | 1639.5 | 40.9 | 839 | 7 US-11-076-431-4 | Sequence 4, Appli |
| 5 | 1639.5 | 40.9 | 839 | 7 US-11-005-216-2 | Sequence 2, Appli |
| 6 | 594.5 | 14.8 | 729 | 6 US-10-511-538-101 | Sequence 101, App |
| 7 | 467 | 11.7 | 557 | 6 US-10-821-234-1593 | Sequence 1593, Ap |
| 8 | 161.5 | 4.0 | 1104 | 6 US-11-099-855-2 | Sequence 2, Appli |
| 9 | 159 | 4.0 | 1159 | 6 US-10-055-877-139 | Sequence 139, App |
| 10 | 151 | 3.8 | 1765 | 6 US-10-055-877-140 | Sequence 140, App |
| 11 | 151 | 3.8 | 1940 | 6 US-10-055-877-141 | Sequence 141, App |
| 12 | 150 | 3.7 | 4384 | 6 US-10-821-234-1120 | Sequence 1120, Ap |
| 13 | 144.5 | 3.6 | 1104 | 6 US-11-099-855-11 | Sequence 11, Appl |
| 14 | 141 | 3.5 | 1104 | 6 US-11-099-855-13 | Sequence 13, Appl |
| 15 | 135 | 3.4 | 1059 | 6 US-10-055-877-138 | Sequence 138, App |
| 16 | 135 | 3.4 | 1104 | 7 US-11-099-855-12 | Sequence 12, Appl |
| 17 | 130.5 | 3.3 | 835 | 7 US-11-186-283-2 | Sequence 2, Appli |
| 18 | 125.5 | 3.1 | 505 | 7 US-11-072-512-2553 | Sequence 2553, Ap |
| 19 | 124.5 | 3.1 | 993 | 6 US-10-055-877-6 | Sequence 6, Appli |
| 20 | 123.5 | 3.1 | 791 | 6 US-10-055-877-137 | Sequence 137, App |
| 21 | 123 | 3.1 | 989 | 6 US-10-821-234-975 | Sequence 975, App |
| 22 | 121 | 3.0 | 393 | 6 US-10-485-517-197 | Sequence 197, App |
| 23 | 120 | 3.0 | 784 | 7 US-11-072-175-153 | Sequence 153, App |
| 24 | 119.5 | 3.0 | 1001 | 7 US-11-072-512-2283 | Sequence 2283, Ap |
| 25 | 117 | 2.9 | 263 | 7 US-11-072-512-3095 | Sequence 3095, Ap |

| | | | | | |
|----|-------|-----|------|----------------------|-------------------|
| 26 | 117 | 2.9 | 645 | 7 US-11-072-512-2588 | Sequence 2588, Ap |
| 27 | 116.5 | 2.9 | 835 | 7 US-11-186-283-8 | Sequence 8, Appli |
| 28 | 113 | 2.8 | 2471 | 7 US-11-050-346-68 | Sequence 68, Appl |
| 29 | 112.5 | 2.8 | 657 | 7 US-11-072-512-2529 | Sequence 2529, Ap |
| 30 | 111.5 | 2.8 | 2556 | 7 US-11-050-346-67 | Sequence 67, Appl |
| 31 | 111 | 2.8 | 1719 | 7 US-11-234-786-378 | Sequence 378, App |
| 32 | 109 | 2.7 | 757 | 6 US-10-055-877-157 | Sequence 157, App |
| 33 | 107 | 2.7 | 1115 | 6 US-10-055-877-160 | Sequence 160, App |
| 34 | 106.5 | 2.7 | 501 | 7 US-11-055-822-52 | Sequence 52, Appl |
| 35 | 105.5 | 2.6 | 795 | 7 US-11-072-512-2378 | Sequence 2378, Ap |
| 36 | 105 | 2.6 | 505 | 6 US-10-487-657-2440 | Sequence 2440, Ap |
| 37 | 105 | 2.6 | 1873 | 7 US-11-126-313-29 | Sequence 29, Appl |
| 38 | 105 | 2.6 | 2339 | 7 US-11-096-281-11 | Sequence 11, Appl |
| 39 | 104.5 | 2.6 | 2261 | 6 US-10-995-561-600 | Sequence 600, App |
| 40 | 104.5 | 2.6 | 2261 | 6 US-10-511-545-1 | Sequence 1, Appli |
| 41 | 104.5 | 2.6 | 2261 | 7 US-11-055-309A-9 | Sequence 9, Appli |
| 42 | 104.5 | 2.6 | 2261 | 7 US-11-055-309A-10 | Sequence 10, Appl |
| 43 | 104 | 2.6 | 530 | 7 US-11-072-512-3649 | Sequence 3649, Ap |
| 44 | 103 | 2.6 | 357 | 6 US-10-793-626-2558 | Sequence 2558, Ap |
| 45 | 103 | 2.6 | 656 | 7 US-11-234-786-379 | Sequence 379, App |

ALIGNMENTS

RESULT 1
US-11-076-431-6
; Sequence 6, Application US/11076431
; Publication No. US20050266435A1
; GENERAL INFORMATION:
; APPLICANT: Hackos, David
; APPLICANT: Serafini, Tito
; APPLICANT: Orike, Nina
; TITLE OF INVENTION: VRI RECEPTORS AND USES THEREOF
; FILE REFERENCE: 2605-1-015N
; CURRENT APPLICATION NUMBER: US/11/076,431
; CURRENT FILING DATE: 2005-03-09
; PRIOR APPLICATION NUMBER: 60/551,570
; PRIOR FILING DATE: 2004-03-09
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 6
; LENGTH: 839
; TYPE: PRT
; ORGANISM: Homo Sapiens
; FEATURE:
; NAME/KEY: VARIANT
; LOCATION: (0)...(0)
; OTHER INFORMATION: Variant S512Y
US-11-076-431-6

Query Match 41.3%; Score 1653.5; DB 7; Length 839;
Best Local Similarity 48.5%; Pred. No. 1.1e-131;
Matches 344; Conservative 122; Mismatches 199; Indels 45; Gaps 11;

| | | | |
|----|-----|---|-----|
| Qy | 74 | FDRLFNVRGVPEDLAGLPEYLSKTSKYLTDSEYTGSTGKTCMLKAVLNKGVNA | 133 |
| Db | 113 | YDRSFVAVQNNQDLSELLFLQSKKHLTDNEFKDPETGKTKLLKAMLNHDQNT | 172 |
| Qy | 134 | CILPLLQIDRDSGNPOLVNAOCTDDYRGHSAHIAIEKRSLQCVKLLVYENGANVHARA | 193 |
| Db | 173 | TIPLLLEIARQTDLSKELVNASYDYSYKQTAHIAIERNNALVTLLVENGADVQAAA | 232 |
| Qy | 194 | CGRFFQKGGQ-TCFYFGEPLPLSLAACTKQMDVVSYLLENPHQPASLOATDSQGNVTLHAL | 252 |
| Db | 233 | HGDFFKTKGRPGFYFGEPLPLSLAACTNQLGIKFLQNSWQTADISARDSVGNVTLHAL | 292 |
| Qy | 253 | VMISDNSAENIALVTSMDGLLOAGARLCPTVOLEIRNLQDITPLKLAKEGKIEFRH | 312 |
| Db | 293 | VEVADNTADNTKEVTSMYNEILMLGAKJHPTLKLBELTNKKGMTPLAALAAAGTKIGLAY | 352 |
| Qy | 313 | ILQREFS--GLSHLSRKPTWCYGPVRVSLDYLDASVDSCENSVLETIAF-HCKSPHRR | 369 |

Db 353 ILQRETEPCRHLSRKFTWAGPVHSSLYDLSCIDTCENSVLEVIAYSSSETPNRHD 412
 Qy 370 MVVLEPLNKLQAKWDLIPK-FFLNPLCNLIYMFIFTAVAYHPTLKQAAAPHLKAE-V 427
 Db 413 MLVLEPLNKLQAKWDFVKRIFFYNFLVCLYMIIFTMAAYRPV---DGLPPFKMEKT 469
 Qy 428 GNSMLTGHILILLGGIYLLVGQWYFMRHRHVFIMISFIDSYPEILFLFOALLTVVVSQVL 487
 Db 470 GDYFRVTGEILSVLGGVYFFFRGIQYFLQRRPSMKTLFVDSYSEMLFFLQSLPMLATVVL 529
 Qy 488 CFLAEIHWYLLPLLSALVULGWLNLYYTRGFQHTGIYSVMIOKVILRDLLRFLLIYVLELP 547
 Db 530 YFSLKEYVASMVFSALGWTNMLYYTRGFQMGIVAVMIERKMLRDLRCRFMEFVYVLELP 589
 Qy 548 GFAVALVLSQEA-----WRPEAPTGNATESVQPMEGQDEBGNCAQYRGIL 594
 Db 590 GFSTAVVTLIEDGKNDLSPSESTSHRWGPACRPDPSS-----YNSLY 632
 Qy 595 EASLELFKFTIGMGELAFQOLHFRGMVLLLLAYVLLTYILLNMLIALMSETVNSVAT 654
 Db 633 STCLELFKFTIGMGDLFTENYDFKAVFIILLAYVILTYILLNMLIALMGETVNKIAQ 692
 Qy 655 DSWSIWKLQKAI SVLEMENGYWMC-RKKORAGVMLTVGTPDGSPDERWCFCRVEEVNWS 713
 Db 693 ESKNIWKLQRAITILDTEKSFCLKMKRKAFRSGKLLQVGYTPDGKDDYRWCFRVDEVNWT 752
 Qy 714 WEQTLPTLCDDPSGA-GVPRTLNPLVSLPPKDEDEGASENVVPVQLQ 762
 Db 753 WNTNNGIINEDPGNCEGVKRTLSFSLRSS-----RVSGRHWKNFALVPLLR 798

RESULT 2

US-11-076-431-8
 ; Sequence 8, Application US/11076431
 ; Publication No. US20050266435A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Hackos, David
 ; APPLICANT: Serafini, Tito
 ; APPLICANT: Orike, Nina
 ; TITLE OF INVENTION: VRI RECEPTORS AND USES THEREOF
 ; FILE REFERENCE: 2605-1-015N
 ; CURRENT APPLICATION NUMBER: US/11/076,431
 ; CURRENT FILING DATE: 2005-03-09
 ; PRIOR APPLICATION NUMBER: 60/551,570
 ; PRIOR FILING DATE: 2004-03-09
 ; NUMBER OF SEQ ID NOS: 8
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 8
 ; LENGTH: 839
 ; TYPE: PRT
 ; ORGANISM: Homo Sapiens
 US-11-076-431-8

Query Match 41.2%; Score 1648.5; DB 7; Length 839;
 Best Local Similarity 48.5%; Pred. No. 3e-131;
 Matches 344; Conservative 121; Mismatches 200; Indels 45; Gaps 11;

Qy 74 FDRDLFNASRGVPEDLAGLPEYLSKTSKYLTDSYTEGSTGKTCCLKMAVNLKQGVNA 133
 Db 113 YDRRSFEAVANNQCDLESLLLFLQSKKHLTDNEFKDPETGKTCCLKAMNLHDQONT 172
 Qy 134 CILPLLIQIDRDSGNPQPLVNAQCTDDYYRGHSALHIAIEKRSIQCVKLLVENGANVHARA 193
 Db 173 TIPLLLEIARQTDLSKELVNASYTDYKGTQALHIAIERNMALVTLVENGADVQAAA 232
 Qy 194 CGRFFQKQG-TCFYFGEPLSLAACTQKQDWDVSYLLENPHQPASLOATDSQGNVTLHAL 252
 Db 233 HGDFFKTKRPGPYFGELPLSLAACTNQLGIKVFLLQNSWQTADISARDSVGNVTLHAL 292
 Qy 253 VMLSDNSAENIALTVSNYDGLQAGRLCPTVQLEDIRNLQDLTFLKLAKEGKIEIFRH 312
 Db 293 VEADNTADNTKFTVSYNIELMLGAKLHPTLKLBELTNKKGMTPLALAAAGTKIGVLAY 352

Qy 313 ILQREPS--GLSHLSRKFTWCYGPVRVSLYDLASVDSCEENSVLIIAP-HCKSPHRHR 369
 Db 353 ILQRETEPCRHLSRKFTWAGPVHSSLYDLSCIDTCENSVLEVIAYSSSETPNRHD 412
 Qy 370 MVVLEPLNKLQAKWDLIPK-FFLNPLCNLIYMFIFTAVAVHPTLKQAAAPHLKAE-V 427
 Db 413 MLVLEPLNKLQAKWDFVKRIFFYNFLVCLYMIIFTMAAYRPV---DGLPPFKMEKT 469
 Qy 428 GNSMLTGHILILLGGIYLLVGQWYFMRHRHVFIMISFIDSYPEILFLFOALLTVVVSQVL 487
 Db 470 GDYFRVTGEILSVLGGVYFFFRGIQYFLQRRPSMKTLFVDSYSEMLFFLQSLPMLATVVL 529
 Qy 488 CFLAEIHWYLLPLLSALVULGWLNLYYTRGFQHTGIYSVMIOKVILRDLLRFLLIYVLELP 547
 Db 530 YFSLKEYVASMVFSALGWTNMLYYTRGFQMGIVAVMIERKMLRDLRCRFMEFVYVLELP 589
 Qy 548 GFAVALVLSQEA-----WRPEAPTGNATESVQPMEGQDEBGNCAQYRGIL 594
 Db 590 GFSTAVVTLIEDGKNDLSPSESTSHRWGPACRPDPSS-----YNSLY 632
 Qy 595 EASLELFKFTIGMGELAFQOLHFRGMVLLLLAYVLLTYILLNMLIALMSETVNSVAT 654
 Db 633 STCLELFKFTIGMGDLFTENYDFKAVFIILLAYVILTYILLNMLIALMGETVNKIAQ 692
 Qy 655 DSWSIWKLQKAI SVLEMENGYWMC-RKKORAGVMLTVGTPDGSPDERWCFCRVEEVNWS 713
 Db 693 ESKNIWKLQRAITILDTEKSFCLKMKRKAFRSGKLLQVGYTPDGKDDYRWCFRVDEVNWT 752
 Qy 714 WEQTLPTLCDDPSGA-GVPRTLNPLVSLPPKDEDEGASENVVPVQLQ 762
 Db 753 WNTNNGIINEDPGNCEGVKRTLSFSLRSS-----RVSGRHWKNFALVPLLR 798

RESULT 3

US-11-076-431-2
 ; Sequence 2, Application US/11076431
 ; Publication No. US20050266435A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Hackos, David
 ; APPLICANT: Serafini, Tito
 ; APPLICANT: Orike, Nina
 ; TITLE OF INVENTION: VRI RECEPTORS AND USES THEREOF
 ; FILE REFERENCE: 2605-1-015N
 ; CURRENT APPLICATION NUMBER: US/11/076,431
 ; CURRENT FILING DATE: 2005-03-09
 ; PRIOR APPLICATION NUMBER: 60/551,570
 ; PRIOR FILING DATE: 2004-03-09
 ; NUMBER OF SEQ ID NOS: 8
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 2
 ; LENGTH: 839
 ; TYPE: PRT
 ; ORGANISM: Homo Sapiens
 ; FEATURE:
 ; NAME/KEY: VARIANT
 ; LOCATION: (0)...(0)
 ; OTHER INFORMATION: variant Y511A
 US-11-076-431-2

Query Match 40.9%; Score 1639.5; DB 7; Length 839;
 Best Local Similarity 48.3%; Pred. No. 1.7e-130;
 Matches 343; Conservative 121; Mismatches 201; Indels 45; Gaps 11;

Qy 74 FDRDLFNASRGVPEDLAGLPEYLSKTSKYLTDSYTEGSTGKTCCLKMAVNLKQGVNA 133
 Db 113 YDRRSFEAVANNQCDLESLLLFLQSKKHLTDNEFKDPETGKTCCLKAMNLHDQONT 172
 Qy 134 CILPLLIQIDRDSGNPQPLVNAQCTDDYYRGHSALHIAIEKRSIQCVKLLVENGANVHARA 193
 Db 173 TIPLLLEIARQTDLSKELVNASYTDYKGTQALHIAIERNMALVTLVENGADVQAAA 232
 Qy 194 CGRFFQKQG-TCFYFGEPLSLAACTQKQDWDVSYLLENPHQPASLOATDSQGNVTLHAL 252

Db 233 HGDFKTKGRPGFVFGELPLSLAACTNQLGIVKFLQNSWQTADISARDSVGNVTVLHAL 292

Qy 253 VMISDNSAENIALVTSYMDGLLOAGARLCPTVQLEDIRNLQDLPLKLAKEGKIEIPRH 312

Db 293 VEADNTADNTKFTVSMYNEILMLGAKLHPTLKLEELTNKGMTPLAALAACTGKIGVLA 352

Qy 313 ILQREFS--GLSHLSRKFTWCYGPVRVSLYDLASVDSCEVLEIIFAF-HCKSPHRRH 369

Db 353 ILQREIQEPECHLSRKFTWAYGPHVSSLYDLSCIDTCENKSVLEIAYSSSTPNRHD 412

Qy 370 MVLEPLNKLQAKWDLIPK-FFNLFCNLIIYFIPTAVAYHOPTLKKQAAPHLKAB-V 427

Db 413 MLLVEPLNRLQDKWDRFVKRIFFYFNFLVCLYMIIFTMAAYRPV---DGLPPFKMEKT 469

Qy 428 GNSMLLTGHILILGGLIYLLVQGLWYFWRHVFVFIWISFIDSYFELFLFQALLTVVSOVL 487

Db 470 GDYFRVTGEILSVLGGVYFFRGIOYFLQRRPSMKTFLVDSASEMLFLQSLFMLATVVL 529

Qy 488 CFLAIEWYLLPLVLSALVGLWNLIIYTRGFQHTGIYSVMIOKVIIRDLRLFLIYVPLF 547

Db 530 YFSLKEVYASVMVFSALGWTNMLIYTRGFQOMGIYAVMIEKMTLRLDLCRFMFVIVFLF 589

Qy 548 GFAVALVSLQEA-----WRPEAPTGNATESVOPMEGDEGNGAQYRGIL 594

Db 590 GFSTAVVTLEDGKNDLSPSESTSHRWGPACRPDSS-----YNSLY 632

Qy 595 EASLELKFPTIGMELAFQOLHFRGMVLLIILAYVLLTYILLNMLIALMSETVNSVAT 654

Db 633 STCLELKFPTIGMDELFTENYDFKAVFIILLAYVILTYILLNMLIALMGETVNVKIAQ 692

Qy 655 DSWSIWKLOKAIISVLENGYWM-C-RKKQAGVMLTVGTPDGSDBRWCPRVEEVNWS 713

Db 693 ESKNIWKLOKRAITILDTEKSPKCMKRAFRSGKLQVGYTPDGKDDYRWCPRVDEVNWT 752

Qy 714 WEQTLPTLCDDPSGA-GVPRTEPNVLASPPKEDGSEENYVPVOLQ 762

Db 753 WNTNVGIINEDPGNCGVKRTLSFSLRSS-----RVSGRHWKNFALVPLLR 798

RESULT 4

US-11-076-431-4

; Sequence 4, Application US/11076431

; Publication No. US20050266435A1

; GENERAL INFORMATION:

; APPLICANT: Hackos, David

; APPLICANT: Serafini, Tito

; APPLICANT: Orike, Nina

; TITLE OF INVENTION: VRI RECEPTORS AND USSES THEREOF

; FILE REFERENCE: 2605-1-015N

; CURRENT APPLICATION NUMBER: US/11/076.431

; CURRENT FILING DATE: 2005-03-09

; PRIOR APPLICATION NUMBER: 60/551,570

; PRIOR FILING DATE: 2004-03-09

; NUMBER OF SEQ ID NOS: 8

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 4

; LENGTH: 839

; TYPE: PRT

; ORGANISM: Homo Sapiens

; FEATURE:

; NAME/KEY: VARIANT

; LOCATION: (0)...(0)

; OTHER INFORMATION: Variant Y511C

US-11-076-431-4

Query Match 40.9%; Score 1639.5; DB 7; Length 839;

Best Local Similarity 48.3%; Pred. No. 1.7e-130;

Matches 343; Conservative 121; Mismatches 201; Indels 45; Gaps 11;

Qy 74 FDRDLFNVRSGVPEDLAGLPEVLSKTYLTDSEYTEGSTGKTLKMAVLNLDGVA 133

Db 113 YDR&R&FEAQAQNCQDLESLLPLQSKKHLTDNEFKDPETGKTCLLKAMLNLDHGQNT 172

Qy 134 CILPILQIDRDSGNPQPLVNAQCTDDYYRGHSALHIAIERKSLQCVKLLVNGANVHARA 193

Db 173 TIPLLEIARQTDLSKELVNASYTDSYKGTALHIAIERENMALVTLLVNGADQAAA 232

Qy 194 CGRFQKQOG--TCYFGEELPLSLAACTQKWDVSVYLLNPHQPLASQATDSCQNTVLHAL 252

Db 233 HGDFKTKGRPGFVFGELPLSLAACTNQLGIVKFLQNSWQTADISARDSVGNVTVLHAL 292

Qy 253 VMISDNSAENIALVTSYMDGLLOAGARLCPTVQLEDIRNLQDLPLKLAKEGKIEIPRH 312

Db 293 VEADNTADNTKFTVSMYNEILMLGAKLHPTLKLEELTNKGMTPLAALAACTGKIGVLA 352

Qy 313 ILQREFS--GLSHLSRKFTWCYGPVRVSLYDLASVDSCEVLEIIFAF-HCKSPHRRH 369

Db 353 ILQREIQEPECHLSRKFTWAYGPHVSSLYDLSCIDTCENKSVLEIAYSSSTPNRHD 412

Qy 370 MVLEPLNKLQAKWDLIPK-FFNLFCNLIIYFIPTAVAYHOPTLKKQAAPHLKAB-V 427

Db 413 MLLVEPLNRLQDKWDRFVKRIFFYFNFLVCLYMIIFTMAAYRPV---DGLPPFKMEKT 469

Qy 428 GNSMLLTGHILILGGLIYLLVQGLWYFWRHVFVFIWISFIDSYFELFLFQALLTVVSOVL 487

Db 470 GDYFRVTGEILSVLGGVYFFRGIOYFLQRRPSMKTFLVDSASEMLFLQSLFMLATVVL 529

Qy 488 CFLAIEWYLLPLVLSALVGLWNLIIYTRGFQHTGIYSVMIOKVIIRDLRLFLIYVPLF 547

Db 530 YFSLKEVYASVMVFSALGWTNMLIYTRGFQOMGIYAVMIEKMTLRLDLCRFMFVIVFLF 589

Qy 548 GFAVALVSLQEA-----WRPEAPTGNATESVOPMEGDEGNGAQYRGIL 594

Db 590 GFSTAVVTLEDGKNDLSPSESTSHRWGPACRPDSS-----YNSLY 632

Qy 595 EASLELKFPTIGMELAFQOLHFRGMVLLIILAYVLLTYILLNMLIALMSETVNSVAT 654

Db 633 STCLELKFPTIGMDELFTENYDFKAVFIILLAYVILTYILLNMLIALMGETVNVKIAQ 692

Qy 655 DSWSIWKLOKAIISVLENGYWM-C-RKKQAGVMLTVGTPDGSDBRWCPRVEEVNWS 713

Db 693 ESKNIWKLOKRAITILDTEKSPKCMKRAFRSGKLQVGYTPDGKDDYRWCPRVDEVNWT 752

Qy 714 WEQTLPTLCDDPSGA-GVPRTEPNVLASPPKEDGSEENYVPVOLQ 762

Db 753 WNTNVGIINEDPGNCGVKRTLSFSLRSS-----RVSGRHWKNFALVPLLR 798

RESULT 5

US-11-005-216-2

; Sequence 2, Application US/11005216

; Publication No. US20050287633A1

; GENERAL INFORMATION:

; APPLICANT: McIntyre, Peter

; APPLICANT: James, Iain Fraser

; TITLE OF INVENTION: Human Vanilloid Receptor

; FILE REFERENCE: 4-30875A

; CURRENT APPLICATION NUMBER: US/11/005.216

; CURRENT FILING DATE: 2004-12-06

; PRIOR APPLICATION NUMBER: US/09/533,220

; PRIOR FILING DATE: 2000-03-23

; PRIOR APPLICATION NUMBER: UNITED KINGDOM 9907097.1

; PRIOR FILING DATE: 1999-03-26

; NUMBER OF SEQ ID NOS: 4

; SOFTWARE: PatentIn Ver. 1.30

; SEQ ID NO 2

; LENGTH: 839

; TYPE: PRT

; ORGANISM: Homo sapiens

US-11-005-216-2

Query Match 40.9%; Score 1639.5; DB 7; Length 839;

Best Local Similarity 48.3%; Pred. No. 1.7e-130;

Matches 343; Conservative 121; Mismatches 201; Indels 45; Gaps 11;

Qy 74 FDRDLFNVRSGVPEDLAGLPEVLSKTYLTDSEYTEGSTGKTLKMAVLNLDGVA 133

| | | | |
|----|-----|--|-----|
| Db | 113 | YDRSIFPAVQNNQODLESLLFLQSKXCHLTDFNEKDPETGKTCCLKAMLNHEDQNT | 172 |
| Qy | 134 | CILPLLQIDROSGNPOPLVNAQCTDDYRGHSHALHIAIEKRSLOCVKLLVENGANVHARA | 193 |
| Db | 173 | TIPLLLEIARQTDLSKELVNAYSUDSYKGTQALHIAIERRNMAVYTLVLLVENGADVQANA | 232 |
| Qy | 194 | CGRFFQKQOG-TCFYFGELPLSLAACTQMWVSYLLENPHOPASLOATDSQNTVLHAL | 252 |
| Db | 233 | HGDFFKTKGRPGFYFYGELPLSLAACTNQLGIVKFLQNSWQTADISARDSVGNTVLHAL | 292 |
| Qy | 253 | VMSIDNSAENALVTSMYDGLLOAGARICPTVQLEDIRMLQDLTPKLAAGKGIIEPRH | 312 |
| Db | 293 | VEVADNTADNTKFTVSMYNEIILGAKUHLPTLKBELTNKGMPLALAAAGTKIGVLAY | 352 |
| Qy | 313 | ILOREFS--GLSHLSRKTEWCYGPVRYSLYDLASVDSCEENSVELEIATF-HCKSPHRRH | 369 |
| Db | 353 | ILOREIQBPCEHLSRKTEWAYGPVHSLYDLSCIDCEKNSVLEVIAYSSETPNRHD | 412 |
| Qy | 370 | MVVLBPKNLQAKWDLLIPK-FFNLFLCNLYMEFTAVAYHQPTLKQAAAPHLKAE-V | 427 |
| Db | 413 | MLLVEPLNRLQDKWDRFVKRIFYENFLVYCLYMIIFTMAAYRPPV--DGLPPFKMEKT | 469 |
| Qy | 428 | GNSMLLTGHILLIGGIYILLVQOLMYFRRHHVFIWISPIDSYFEILFLFQALLTVVSQVL | 487 |
| Db | 470 | GDYFRVVTGEILSVLGGVYFFFRGIIQYFQRRPSMKTLFVDSYSEMLFFLQSLFMILATVYL | 529 |
| Qy | 488 | CFLAIEWTLPLVLSALVLGMLNLLYTRGFQHTGIYSVNMIOKVILRDLRLFLLIYLVFLF | 547 |
| Db | 530 | YFSLHKEYVASNVFLSALGWTNMLYTRGFQMGYIYAVNIEKMLRDLRCRFPFVIYVFLF | 589 |
| Qy | 548 | GFAVALVSLSQEA-----WRPEAPTGPNATESVQPMBQDEGNGAQYRGIL | 594 |
| Db | 590 | GFSTAVVTLIEDGKNDLSPSESTSHWRGSPACKPPDSS-----YNSLY | 632 |
| Qy | 595 | EASILELFPKFTTGMGELAQEQQLHFRGMVLLLLLAVLLTYIILLNMLIALMSETVNSVAT | 654 |
| Db | 633 | STCUELFPKFTTGMGDLFETENYDFKAVFIILLAVVILTYIILLNMLIALMGETVNMKIAQ | 692 |
| Qy | 655 | DSWSIWLKQAKISVLEMENGYWVC-RKKORAGVMLTVGTPKPGSDPCRWCFRVBEVNMAS | 713 |
| Db | 693 | ESKNIKWLQRAITILDTKESFLKCMRKAFPSRKLQVGYTPDGKDYRCFVDEVNWTT | 752 |
| Qy | 714 | WEQTLPTLCEDPSGA-GVPRTLLENPVLASPPKEDEGASEENYVVPQLLQ | 762 |
| Db | 753 | WNTNVGINEDPGNCEGKRTLSFSLRGS-----RVSGRHWKQFALVPLLR | 798 |

[illegible]

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RESULT 7
US-10-821-234-1593
; Sequence 1593, Application US/10821234
; Publication No. US20050255114A1
; GENERAL INFORMATION:
; APPLICANT: Labat, Ivan
; APPLICANT: Stache-Crain, Birgit
; APPLICANT: Andarmani, Susan
; APPLICANT: Tang, Y. Tom
; TITLE OF INVENTION: Methods for Diagnosis and Treatment of Preeclampsia
; FILE REFERENCE: 821A
; CURRENT APPLICATION NUMBER: US/10/821,234
; CURRENT FILING DATE: 2004-04-07

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; PRIOR APPLICATION NUMBER: US 60/462,047
;
; PRIOR FILING DATE: 2003-04-07
;
; NUMBER OF SEQ ID NOS: 1704
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; SOFTWARE: pc_seq_genes Version 1.0
; SEQ ID NO 1593
; LENGTH: 557
; TYPE: prt
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; ORGANISM: Homo sapiens
; US-10-821-234-1593

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Query Match      11.7%; Score 467; DB 6; Length 557;
Best Local Similarity 28.2%; Pred. No. 1.2e-31;
Matches 140; Conservative 89; Mismatches 184; Indels 84; Gaps 16;

QY      242 DSQNTVLHALVMSDSNAENIALVTSYDGLL---QAGARLCPVQLEDIRNLQDLTPL 298
Db      25 DSLGNTVLHILIL-----QPNKTFACQYNULLSYDRHGDHLQP---LDLVFNHQGLTPF 76

QY      299 KLAAGEKIEIFRHILQREFSGLSHLSRKFTWCYGPVRVSLYDLASVDC- EENSVLBI 357
Db      77 KLAGVEGNTVMFQHLMQK-----RKHTQWYGPLTSLTYDLTEIDSSGDSQSLEL 127

QY      358 IAFKQKSPHRRMVVLBPLNKLQAKWDLL-IPKFFLNFLCNLIYMFITFAYAH---QP 413
Db      128 I-ITTKREARQILDQTPVKELVSLWKRYGRPYFCMLGAIYLLYIICFTMCCTYRPLK 186

QY      414 TLKKQAAPHLKAEVGSNML-----LTGHILILGGIYLLVQCLWYFRRHV-- 459
Db      187 RTNRTSPRNTLLQOKLQEQAYNTPKDDIKLVGELVTVIGAILLVLEVEDIPFRMGVTR 246

QY      460 FIMISPTDSYFEILFLFOALITVVSQVLCFLAIEWYLPLLVSALVGLNLLYYTRGQ 519
Db      247 FPGQTLGGPHVLIIITYAFNVLVTWMLISASGEVVPMSFALVGLNCVNYFARGQM 306

QY      520 TGIYSVMIOKVLBDLLRFLLIYVLFPGFAVALVSLSQEAWRPEAPTGPNNATESVQPM 579
Db      307 LGPPTIMIQMIFGDLMRFCWLMVAVILGFASAFYIIQ-----TE 347

QY      580 QQDEBGNGAQYRGILEASLELFEKTIKGNGELAFQELHFRGMVLLLLAYVLLTYILLN 639
Db      348 DPBELGHFYDYPMALFTFELF-LTIIDGPANYNDLPF--MYSITVAAPAIATLLMLN 404

QY      640 MLTALMSETVNSVATDSWSIKLQKATSVLEMENGY---MW-----CRKKQAGVMLTVG 691
Db      405 LLALAMGDTHRWVAHERDELWRAQIVATVTMLERKLPRCLWPRSGICGREYGLG----- 458

QY      692 TKPDGSDPERWCFFREE 708
Db      459 -----DRWFLRVED 467

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RESULT 8
US-11-099-855-2
; Sequence 2, Application US/11099855
; Publication No. US20060014246A1
; GENERAL INFORMATION:
; APPLICANT: FLORES, CHRISTOPHER M.
; APPLICANT: LIU, YI
; APPLICANT: LUBIN, MARY LOU
; APPLICANT: QIN, NING
; TITLE OF INVENTION: 'CANTINE COLD- AND MENTHOL-SENSITIVE RECEPTOR 1
; FILE REFERENCE: PRD-2211
; CURRENT APPLICATION NUMBER: US/11/099,855
; CURRENT FILING DATE: 2005-04-06
; PRIOR APPLICATION NUMBER: 60/560,400
; PRIOR FILING DATE: 2004-04-08
; PRIOR APPLICATION NUMBER: 60/621,223
; PRIOR FILING DATE: 2004-10-22
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: PatentIn Ver. 3.3
; SEQ ID NO 2
; LENGTH: 1104
; TYPE: PRT

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[illegible]

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(without alignments)
7434.101 Million cell updates/sec

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Perfect score: 2469
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Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 7204252 seqs, 1061369211 residues

Total number of hits satisfying chosen parameters: 14408504

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications NA New:

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- 2: /cgn2_6/ptodata/1/pubpna/US06_NEW_PUB.seq*
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- 10: /cgn2_6/ptodata/1/pubpna/US11_NEW_PUB.seq2*
- 11: /cgn2_6/ptodata/1/pubpna/US11_NEW_PUB.seq3*
- 12: /cgn2_6/ptodata/1/pubpna/US11_NEW_PUB.seq4*
- 13: /cgn2_6/ptodata/1/pubpna/US60_NEW_PUB.seq*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | ID | Description |
|------------|-------|-------------|--------|-----------------------|---------------------|
| 1 | 662.4 | 26.8 | 2520 | 12 US-11-076-431-5 | Sequence 5, Appli |
| 2 | 660.8 | 26.8 | 2520 | 12 US-11-076-431-7 | Sequence 7, Appli |
| 3 | 659.2 | 26.7 | 2520 | 12 US-11-076-431-3 | Sequence 3, Appli |
| 4 | 659.2 | 26.7 | 3463 | 12 US-11-005-216-1 | Sequence 1, Appli |
| 5 | 657.6 | 26.6 | 2520 | 12 US-11-076-431-1 | Sequence 1, Appli |
| 6 | 129.6 | 5.2 | 702 | 8 US-10-750-185-42638 | Sequence 42638, A |
| 7 | 129.6 | 5.2 | 702 | 8 US-10-750-623-42638 | Sequence 42638, A |
| 8 | 77.8 | 3.2 | 1674 | 8 US-10-821-234-741 | Sequence 100, Appli |
| 9 | 75 | 3.0 | 2953 | 7 US-11-511-538-100 | Sequence 5, Appli |
| 10 | 70.6 | 2.9 | 153376 | 12 US-11-121-086-5 | Sequence 4598, Ap |
| 11 | 63.8 | 2.6 | 1400 | 12 US-11-136-527-4598 | Sequence 502, App |
| 12 | 63.8 | 2.6 | 19098 | 12 US-11-136-527-502 | Sequence 91, Appli |
| 13 | 54.8 | 2.2 | 179597 | 12 US-11-121-086-91 | Sequence 109, Appli |
| 14 | 54.6 | 2.2 | 1524 | 12 US-11-234-786-109 | Sequence 35755, A |
| 15 | 52.6 | 2.1 | 914 | 8 US-10-750-185-35755 | Sequence 35755, A |
| 16 | 52.6 | 2.1 | 914 | 8 US-10-750-623-35755 | Sequence 1, Appli |
| 17 | 48.6 | 2.0 | 3815 | 12 US-11-099-855-1 | Sequence 185, App |
| 18 | 48.4 | 2.0 | 384 | 12 US-11-234-786-185 | Sequence 1080, Ap |
| 19 | 46.4 | 1.9 | 1747 | 9 US-11-072-512-1080 | Sequence 1859, Ap |
| 20 | 46.4 | 1.9 | 2026 | 9 US-11-072-512-1859 | |

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|---|----|------|-----|--------|----|-----------------------|--------------------|
| c | 21 | 45.4 | 1.8 | 470 | 6 | US-09-925-065A-675786 | Sequence 675786, |
| | 22 | 44.6 | 1.8 | 4870 | 12 | US-11-136-527-311 | Sequence 311, App |
| c | 23 | 43.4 | 1.8 | 782 | 8 | US-10-750-185-40785 | Sequence 40785, A |
| c | 24 | 43.4 | 1.8 | 782 | 8 | US-10-750-623-40785 | Sequence 40785, A |
| c | 25 | 42.4 | 1.7 | 88421 | 12 | US-11-205-109-1 | Sequence 1, Appli |
| c | 26 | 41 | 1.7 | 2183 | 9 | US-11-072-512-1064 | Sequence 1064, Ap |
| | 27 | 41 | 1.7 | 4305 | 12 | US-11-080-991-67 | Sequence 7, Appli |
| | 28 | 41 | 1.7 | 4339 | 7 | US-10-912-971-7 | Sequence 2, Appli |
| | 29 | 40.8 | 1.7 | 37507 | 8 | US-10-522-037-2 | Sequence 2, Appli |
| | 30 | 40.6 | 1.6 | 3468 | 7 | US-10-755-092-2 | Sequence 70, Appli |
| c | 31 | 40.6 | 1.6 | 4350 | 12 | US-11-124-367A-70 | Sequence 5097, Ap |
| | 32 | 40.6 | 1.6 | 95604 | 12 | US-11-124-367A-5097 | Sequence 3, Appli |
| | 33 | 40.4 | 1.6 | 7893 | 12 | US-11-186-731-3 | Sequence 1, Appli |
| | 34 | 40.4 | 1.6 | 8106 | 12 | US-11-186-731-1 | Sequence 6, Appli |
| | 35 | 40.4 | 1.6 | 23907 | 12 | US-11-186-731-6 | Sequence 4, Appli |
| | 36 | 40.4 | 1.6 | 24120 | 12 | US-11-186-731-4 | Sequence 43, Appli |
| | 37 | 40.2 | 1.6 | 1993 | 12 | US-11-120-308-43 | Sequence 1679, Ap |
| | 38 | 40 | 1.6 | 1669 | 9 | US-11-072-512-1679 | Sequence 1, Appli |
| | 39 | 40 | 1.6 | 88421 | 12 | US-11-205-109-1 | Sequence 1675, Ap |
| | 40 | 39.8 | 1.6 | 2185 | 9 | US-11-072-512-1675 | Sequence 75, Appli |
| | 41 | 39.8 | 1.6 | 2815 | 9 | US-11-072-512-75 | Sequence 7399, Ap |
| c | 42 | 39.6 | 1.6 | 600 | 12 | US-11-136-527-7399 | Sequence 3303, Ap |
| c | 43 | 39.6 | 1.6 | 2479 | 12 | US-11-136-527-3303 | Sequence 20, Appli |
| | 44 | 39.2 | 1.6 | 1485 | 12 | US-11-143-980-20 | Sequence 1, Appli |
| c | 45 | 39.2 | 1.6 | 116856 | 12 | US-11-143-980-1 | |

ALIGNMENTS

RESULT 1
US-11-076-431-5
; Sequence 5, Application US/11076431
; Publication No. US20050266435A1
; GENERAL INFORMATION: David
; APPLICANT: Hackos, David
; APPLICANT: Serafini, Tito
; APPLICANT: Orike, Nina
; TITLE OF INVENTION: VRI RECEPTORS AND USES THEREOF
; FILE REFERENCE: 2605-1-015N
; CURRENT APPLICATION NUMBER: US/11/076,431
; PRIOR FILING DATE: 2005-03-09
; PRIOR APPLICATION NUMBER: 60/551,570
; FILING DATE: 2004-03-09
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 5
; LENGTH: 2520
; TYPE: DNA
; ORGANISM: Homo Sapiens
; FEATURE:
; NAME/KEY: variation
; LOCATION: (0)...(0)
; OTHER INFORMATION: Variant S512Y
US-11-076-431-5

Query Match 26.8%; Score 662.4; DB 12; Length 2520;
Best Local Similarity 61.1%; Pred. No. 6.1e-164;
Matches 1207; Conservative 0; Mismatches 731; Indels 36; Gaps 7;

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| Qy | 316 | TTTGACCGAGATCGGCTCTTCAATGCGGTCTCCCGGGTGTCCCGAGGATCTGGCTGGA | 375 |
| Db | 337 | TATGATCGCAGGAGTATCTTTGAAGCGTGTCTCAGATAACTCCAGGATCTGGAGNC | 396 |
| Qy | 376 | CTTCCAGAGTACTTGAGCAAGACAGCAAGTACTTACCGACTCGGAATACAGAGGGC | 435 |
| Db | 397 | CTGCTGCTCTTCTTCGCAAGAGAGCAGAGACCCCTCACAGACACGAGTTCAAGACCC | 456 |
| Qy | 436 | TCCACAGGTAAAGCGTCCCTGATGAGGCTGTCTGTGAACCTTAAGGACGGTCAATGCC | 495 |
| Db | 457 | GAGACGGGAGAACCTGTCTGTGTAAGCCCTCAACCTGCACGACGAGACACACC | 516 |
| Qy | 496 | TGCATTCTGCCACTGTCTGCAGATCGACAGGAGCTCTGGCAATCTCAGCCCCCTGTAAT | 555 |

Db 517 ACCATCCCTGCTCTCGGAGATCGCGCGCAAAACGACAGCCCTGGAAGGAGCTTGTCAAC 576
Qy 556 GCCAGTGCACAGATGACTATTACCGAGGCCACAGCGCTCTGCACATCGCCATTTGAGAAG 615
Db 577 GCAGCTACACGACAGCTACTACAAGGGCCAGACAGCACTGCACATCGCCATCGAGAGA 636
Qy 616 AGGAGTCTGCAGTGTGTGAAGCTCTCTGGTGGAAATGGGGCCAATGTGCATGCCGGGCC 675
Db 637 CGCAACATGCGCCCTGGTGACCTCTCTGGTGGAAACGGAGCAGACGCTCCAGGCTCGGGCC 696
Qy 676 TGGCGCGCTTCTTCAGAAAGGCCAAG---GGACTTGTCTTTATTTTCGCTGAGCTACCC 732
Db 697 CATGGGAGCTTCTTTAAGAAACCAAAGGGCGCCCTGGATTCTACTTCGCTGAACCTGCC 756
Qy 733 CTCTCTTTGGCCGCTTGCACCAAGCAGTGGGATGTGTAAGCTACCTCTCGGAGAACCCA 792
Db 757 CTGTCCCTGGCCGCTGCACCAACAGCTGGGCATCGTGAAGTTCCTGCTGCGAAGACTCC 816
Qy 793 CACCAGCCGCCAGCTCGAGGCCACTGACTCCAGGGCAACACAGTCTCTGCATGCCCTA 852
Db 817 TGGCAGAGCGCCGACATCAGCGCCAGGACTCGGTGGGCAACACGCTGTGCACGCCCTG 876
Qy 853 GTGATGATCGGACAACTCAGCTGAGAAATTTGCACTGTGTGACCAAGCATGTATGATGG 912
Db 877 GTGGAGTGGCCGACAAACAGCGCGCAACACAGAAAGTTTGTGACGAGCATGTACAATGAG 936
Qy 913 CTCTCCAGCTGGGGCCGCTCTGCCCTACCGTGCAGCTTGAGNACATCCGCCAACCCTG 972
Db 937 ATTCTGATGTGGGGGCAAACTGCACCCGACGCTGAAGCTGGAGGAGCTCACCAACAG 996
Qy 973 CAGGATCTCAGGCTCTGAAGCTGGCGCCCAAGGAGGCAAGATCGAGATTTTCAGGCCAC 1032
Db 997 AAGGGAATGACCGCGCTGGCTCTGGCAGCTGGGACCGGGAAGATCGGGCTTTGGCCAT 1056
Qy 1033 ATCTCGAGGCGAGTT-----TTCAAGACTGAGCCACCTTTCCGAAAGTTCAACGAG 1086
Db 1057 ATTCTCAGCGGAGATCCAGGAGCCGAGTGCGAGCACCCTGTCCAGGAAGTTTCAACGAG 1116
Qy 1087 TGTGCTATGGGCTGTCCGGGTGTGCTGTATGACTGTGCTGTGAGACAGCTGTGAG 1146
Db 1117 TGGGCTTACGGGCGCGTGCATCTCTGCTGTACGACCTGTCTGCTGACACCTGGAG 1176
Qy 1147 GAGAACTCAGTGTGGAGATCATTTGCCCTTTCAATTGCA---AGAGCCCGCACCGACACCGA 1203
Db 1177 AAGAACTCGTGTGGAGGTATCGCTACAGCAGCAGCGAGACCCCTTAATGCCACGAC 1236
Qy 1204 ATGGTGTGTTGAGGCCCTTGAAACAACTGCTGAGCGGAAATGGGA---TCTGCTCATC 1260
Db 1237 ATGCTCTTGGTGGAGCGCTGAACCGGACTCTGCGAGCAAGTGGGACAGATTCGTCAAG 1296
Qy 1261 CCCAAGTCTTCTTAACCTTCTGTGTAATCTGATCTACATGTTCATCTTCACCGCTGT 1320
Db 1297 CGCATCTTCTTACATCTTCTGCTGTACTGCTGTGATGATGATCTTTCACCATGGCT 1356
Qy 1321 GCCTACCATCAGCTTACCTTGAGAGACGCGCCCTCACCTGAAAGCGGAGTTGGA 1380
Db 1357 GCCTACTACAGGC-----CGTGGATGGCTTGCCTCCCTTAAAGTGGAAAAAATGGA 1410
Qy 1381 AACTCCATGTGTGAGCGGCCAATCCTTATCTGTCTAGGGGATCTACCTCTCGGT 1440
Db 1411 GACTATTTCCGAGTTACTGGAGAGATCTCTGTGTGTAGGAGAGTCTACTTCTTTTTC 1470
Qy 1441 GGCACGTGTGTACTTCTGGCGGCCACGCTGTTCATCTGGATCTCGTTTCATAGACAGC 1500
Db 1471 CGAGGGATTCAGTATTTCTGCGAGAGCGCGCTCGATGAAGACCCCTGTTTGGACAGC 1530
Qy 1501 TACTTTGAAATCTCTTCTGTTCCAGGCCCTGTCTACAGTGTGTGCCAGGTGCTGTGT 1560
Db 1531 TACTATGAGATGCTTTCTTCTGCACTGCTATGCTGCGCCACCGGTGCTGTAC 1590
Qy 1561 TTCTGCGCCATCGAGTGTGACTGCGCCCTGCTGTGTGTCTGCGCTGTGTGGCGTGGCTG 1620

Db 1591 TTCAGCCACCTCAAGGAGTATGTGGCTTCCATGGTATTCTCCCTGGCCCTTGGGCTGGACC 1650
Qy 1621 AACCTGCTTTACTATACACGTGGCTTCCAGCAACACAGGCACTTACAGTGTCTGATGATCCAG 1680
Db 1651 AACATGCTCTACTACACCGCGGTTTCCAGCAGATGGGCATCTATGCGGTCATGATAGAG 1710
Qy 1681 AAGGTCACTCCTCGGGACCTGCTGGCTTCTCTGATCTACTTACTTCTCTCTTTTCGGC 1740
Db 1711 AAGATGATCCTGAGAGACCTGCGGTTTTCATGTTTGTCTACATGCTCTTCTTTGTCGGG 1770
Qy 1741 TTCGCTGTAGCCTGTGTAGCCTGAGCCAGGAGGCTTGGCGCCCGAAGCTCTCAGAGC 1800
Db 1771 TTTTCCACAGCGGTGTGTAGCCTGATTGAAGACGGGAAGATGACTTCCCTGCGCTGTAG 1830
Qy 1801 CCCAATGCCACAGAGTCAGTGCAGCCCATGAGGGGACAGAGGACGAGGGCAACGGGGCC 1860
Db 1831 TCCACGTC-----GCACAGGTGCGGGGCGCTGCTGCAGGCGCCCGGATAGC 1878
Qy 1861 CAGTACAGGGGTATCTCGAAGCCTCTCTTGGAGCTCTTCAAAATTCACCATCGGCATGGGC 1920
Db 1879 TCTTCAACACAGCCTGTACTTCCACCTGCTGGAGCTGTTCAAAGTTTCAACATCGGCATGGGC 1938
Qy 1921 GAGCTGGCCTTCCAGGAGCAGTGCACCTTCCGGCGCATGCTGCTGCTGCTGCTGGCC 1980
Db 1939 GACCTGGAGTTCACTGAGAACTATGACTTCAAGGCTGTCTTCATCATCTCTGCTGCTGGCC 1998
Qy 1981 TAGTGTCTCTCACCTTACATCTGCTGCTCAACATGCTCATCGCCCTCATGAGCGAGACC 2040
Db 1999 TATGTAATTTCTACCTTACATCTCTGCTCAACATGCTCATCGCCCTCATGSGTGAGACT 2058
Qy 2041 GTCAACAGTGTGCCACTGACAGCTGAGGACATCTGAAAGCTGCAAGAACCATCTCTGTCT 2100
Db 2059 GTCAACAGATCGCACAGGAGCAAGAACATCTGGAAGCTGCAAGAGCCATCACCATC 2118
Qy 2101 CTGGAGATGGAGATGGCTATTGGTGTGCGAGGAAG---CAGCGGGCAGGTGTGATG 2157
Db 2119 CTGGACACGAGAGAGGCTTCTTAAAGTGCATGAGGAAGGCTTCCGCTCAGGCAAGCTG 2178
Qy 2158 CTGACCGTTGGCACTAAGCCAGATGGCAGCCCGGATGAGCGCTGTGTGCTTCAGGTTGGAG 2217
Db 2179 CTGCAAGTGGGTACACACCTGATGCAAGGACGACTACCGGTGGTGTCTTCAGGGTGGAC 2238
Qy 2218 GAGGTGAATGGGCTTTCATGGGAGCAGCTGCTGCTACGCTGTGTGAGNACCCG 2271
Db 2239 GAGGTGAATGGACCACTTGAACACCAACGTTGGGATCATCAACGAAGACCCG 2292

RESULT 2

US-11-076-431-7
; Sequence 7, Application US/11076431
; Publication No. US20050266435A1
; GENERAL INFORMATION:
; APPLICANT: Hackoz, David
; APPLICANT: Serafini, Tito
; APPLICANT: Orike, Nina
; TITLE OF INVENTION: VRI RECEPTORS AND USES THEREOF
; FILE REFERENCE: 2605-1-015N
; CURRENT APPLICATION NUMBER: US/11/076,431
; CURRENT FILING DATE: 2005-03-09
; PRIOR APPLICATION NUMBER: 60/551,570
; PRIOR FILING DATE: 2004-03-09
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 7
; LENGTH: 2520
; TYPE: DNA
; ORGANISM: Homo Sapiens
US-11-076-431-7

Query Match 26.8%; Score 660.8; DB 12; Length 2520;
Best Local Similarity 61.1%; Pred. No. 1.6e-163;
Matches 1206; Conservative 0; Mismatches 732; Indels 36; Gaps 7;

QY 316 TTGACCGAGATCGGCTCTTCAATGCGGTCTCCCGGGGTGTCCTCCGAGGATCTGCTGGGA 375
Db |||||
QY 337 TATGTCGAGAGTATCTTTGAAGCGCTTGCTCAGAAATACTGCGAGGATCTGAGAGC 396
Db |||||
QY 376 CTTCCAGAGTACCTGAGCAAGCAGCAAGTACCTCACCGACTCGGAATACACAGAGGC 435
Db |||||
QY 397 CTGCTGCTCTTCTGAGAGAGCAAGAGCACTTCAAGCAACAGAGTTCAAGAGCCCT 456
QY 436 TCCAAGGTAAAGCGTCTGATGAAGGCTGTGCTGAACCTTTAAGGACGAGTCAATGCC 495
Db |||||
QY 457 GAGACAGGAAGACCTGCTGCTGAAGCCATGCTCAACCTCGACGAGGACAGACACC 516
QY 496 TGCATCTGCACTGCTGCAATGACAGAGGACTCTGCGCAATCTCAGCCCTCGGTAAAT 555
Db |||||
QY 517 ACCATCCCCCTGCTCTGAGATCGCGGCAAGCGGACAGCCCTGAAGGAGCTTGTCAAC 576
QY 556 GCCAGTGCACAGATGACTATTAACGAGGCCACAGCGCTGCGACATCGCCATTTGAGAAG 615
Db |||||
QY 577 GCGAGCTACACGACAGTACTACAAGGCCACAGACAGCACTGCGCATCGCCATCGAGAGA 636
QY 616 AGGAGTCTGAGTGTGTAAGCTCTCTGTTGAGAAATGGGGCAATGTGCAATGCCCGGCC 675
Db |||||
QY 637 CGCAACATGGCCCTGCTGACCTCTCTGTTGAGAAACGAGCAGAGCTCGAGGCTCGGCC 696
QY 676 TCGCGCGCTTCTTCCAGAGGGCCAG- - -GGACTTGTCTTTATTTTCGGTGAAGTACCC 732
Db |||||
QY 697 CATGGGACTTCTTTTAAAGAAACCAAGGGCGGCTGGAATCTTACTTTCGGTGAATGCC 756
QY 733 CTCTCTTTGGCGCTTGCACCAAGCAGTGGATGTGTTAGCTTACCTCTCTGGAGAACCA 792
Db |||||
QY 757 CTGTCTTGGCGGCTGACCAACAGCTGGGCATCGTGAAGTTCCTGCTGCGAAGTCC 816
QY 793 CACCAGCGCGCAGCCTGCGAGCCACTGACTCCAGGGGCAACAGACTCTGCAATGCCCTA 852
Db |||||
QY 817 TGGCAGAGCGCGACATCAGCGCCAGGACTCGGTGGGCAACACGGTGTGCGAGCCCTG 876
QY 853 GTGATGATCTCGGACAACTCAGCTGAGAAATGCACTGGTGAACAGCATGTATGATGG 912
Db |||||
QY 877 GTGAGGTGGCCGCAACACAGCGCGCAACACAGAAAGTTTGTGAGGAGCATGTACAATGAG 936
QY 913 CTCCTCCNAGCTGGGGCGGCTCTGCGCTACCGTGCAGCTTGAGGACATCCGCAACTG 972
Db |||||
QY 937 ATTCGTGATGTGGGGGCGCAACTGCACTCCGACGCTGAAGCTGGAGGAGCTCACCAACAAG 996
QY 973 CAGGATCTCAGCGCTCTGMAAGCTGGCGCGCAAGGAGGCAAGATCGAGATTTTCAGGCAC 1032
Db |||||
QY 997 AAGGAATGACCGCTGGCTCTGCGAGCTGGGACCGGGAAGATCGGGGTCTTGGCCAT 1056
QY 1033 ATCTGCGAGCGGAGTT- - - - -TTCAAGGACTGAGCCACCTTTTCCGAAAGTTTCAACCGAG 1086
Db |||||
QY 1057 ATTCACAGCGGAGATCCAGGAGCCCGAGTGCAGGCACCTGTCCAGGAAGTTTCAACCGAG 1116
QY 1087 TGGTGTATGGGCTGTCCGGGTGCTGTATGACCTGCTTCTGTGGACAGCTGTGAG 1146
Db |||||
QY 1117 TGGGCTTACGGGCGCGGTGCACTCTCTGCTGTGACACCTGTCTGTCATCGACACCTCGCGAG 1176
QY 1147 GAGAACTCAGTGTGAGATCATTTGCTTTTCAATTGCA- - -AGAGCCCGCACCCGACACCGA 1203
Db |||||
QY 1177 AAGAACTCGTGTGGAGGTGATCGCTTACAGCAGCAGGAGACCCCTAATGCGCACGAC 1236
QY 1204 ATGCTGCTTTGGAGCCCTTGAACAAACTGCTGAGCGGCAATGGGA- - -TCTGCTCATC 1260
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QY 1237 ATGCTCTTGGTGGAGCGCTGAAACCGACTCTCTGAGGACAAAGTGGGACAGATTCGTCAAG 1296
QY 1261 CCCAAGTCTTCTTAAATCTCTGTGTAATCTGATCTACATGTTTCACTTCAACCGCTGTT 1320
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QY 1297 CGCATCTTCTTCACTTCACTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1356
QY 1321 GCCTTACCATCAGCTTACCTTGAAGAACGAGCGCCCTTCACTGAAAGCGGAGTTGGA 1380
Db |||||
QY 1357 GCCTTACTACAGGC- - - - -CGTGGATGGCTTGGCTTCCCTTTAAGATGGGAAAACTGGA 1410
QY 1381 AACTCCATGCTGTGAGCGGCCACATCTTATCTCTGCTAGGGGGGATCTTACCTCTCTG 1440

Db |||||
QY 1411 GACTATTTCCGAGTTACTGAGAGATCTGTCTGTGTTAGGAGGATCTACTTCTTTTC 1470
QY 1441 GGCAGCTGTGGTACTTCTGCGGCGGCAACGTGTTCATCTCGATCTCGTTATGACAGC 1500
Db |||||
QY 1471 CGAGGATTCAGTATTTTCTGTCAGAGGCGCGCTCGATGAAGACCCCTGTTTGTGACAGC 1530
QY 1501 TACTTTGAAATCCCTTCTTCTGTTCCAGGCCCTGCTCACAGTGGTGTCCAGGTGCTG 1560
Db |||||
QY 1531 TACAGTGAATGCTTTTCTTCTGAGTCACTGTTTCATGCTGGCCACCGTGGTGTGTAC 1590
QY 1561 TTCCTGGCCATPCGAGTGGTACTTGCCTGCTGTGCTGCTGCTGCTGCTGCTGCTGCTG 1620
Db |||||
QY 1591 TTAGCCACCTCAAGGAGTATGTGGCTTCCATGTTTCTCCCTGGCTTGGGCTGGACC 1650
QY 1621 AACCTGCTTACTATATACAGTGGCTTCCAGCACACAGGCACTTACAGTGTATGATCAG 1680
Db |||||
QY 1651 AACATGCTTACTACACCCCGGTTTCCAGCAGATGGGCATCTATGCGCTCATGATAG 1710
QY 1681 AAGTCTATCTCGGGACCTGCTGCTGCTTCTCTGATCTACTTACTTCTTCTTCTTCTG 1740
Db |||||
QY 1711 AAGATGATCTGAGAGACCTGTGCGCTTTCATGTTGCTTACATCGTCTTCTTGTGG 1770
QY 1741 TTGCTGTAGCCCTGTGAGCCTGAGCCAGGAGCTTTGGCGCCCGGAAAGCTCTTACAGGC 1800
Db |||||
QY 1771 TTTTCCACAGCGGTGTGACGCTGATTTGAAGACGGAAGAAATGACTCCCTGCGCTCTGAG 1830
QY 1801 CCCAATGCCACAGATCAGTGCAGCCCATGAGGGGACAGGAGGAGGAGGAGGAGGAGG 1860
Db |||||
QY 1831 TCCACGTC- - - - -GCACAGGTGGCGGGGCTGCTGCTGAGGCGGCGGCGGATAGC 1878
QY 1861 CAGTACAGGGGTATCTCTGGAAGCCTCTTGGAGCTCTTCAAAATTCACCATCGGATGGGC 1920
Db |||||
QY 1879 TCCTACAAAGCCTGTACTCCACTGCTGAGGCTGTTCAAGTTTCAACATCGGATGGGC 1938
QY 1921 GAGTGGCTTCCAGGAGCAGCTGCACTTCCGCGGCAATGTTGCTGCTGCTGCTGCTGCTG 1980
Db |||||
QY 1939 GACCTGGAGTTCACTGAGAACTATGACTTCAAGGCTGCTCTTCACTATCTGCTGCTG 1998
QY 1981 TAGTGTCTGCTACCTTACATCTGCTGCTCAACATGCTCAATGCTCAATGAGGAGGAG 2040
Db |||||
QY 1999 TATGTAAATCTCACTTACATCTGCTCAACATGCTCAATGCTCAATGCTGCTGCTG 2058
QY 2041 GTCAACAGTCTGCGCACTGAGCAGCTGAGGATCTGGAAGCTGCAAGAGGAGGAGGAG 2100
Db |||||
QY 2059 GTCAACAGATCGCAGGAGAGCAAGAACTCTGGAAGCTGCAAGAGGAGGAGGAGGAG 2118
QY 2101 CTGAGATGAGAAATGCTTATGTTGTTGTCAGGAAGAAAG- - -CAGCGGGGAGGTTGATG 2157
Db |||||
QY 2119 CTGGACACGAGAAAGAGCTTCTTAAAGTGCATGAGGAAGGCTTCCGCTCAGGCAAGCTG 2178
QY 2158 CTGACCGTTGGCACTAAGCCAGATGGCAGCCCGATGAGGCTGCTGCTGCTGCTGCTGAG 2217
Db |||||
QY 2179 CTGAGGTGGGTGATCACACCTGATGGCAAGGAGGAGTACCCGCTGCTGCTGCTGCTG 2238
QY 2218 GAGTGAATGGGCTTCACTGGGAGGAGAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 2271
Db |||||
QY 2239 GAGGTGAATGGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 2292

RESULT 3

US-11-076-431-3
; Sequence 3, Application US/11076431
; Publication No. US20050266435A1
; GENERAL INFORMATION:
; APPLICANT: Hackos, David
; APPLICANT: Serafini, Tito
; APPLICANT: Orike, Nina
; TITLE OF INVENTION: VRI RECEPTORS AND USES THEREOF
; FILE REFERENCES: 2605-1-015N
; CURRENT APPLICATION NUMBER: US/11/076,431
; CURRENT FILING DATE: 2005-03-09
; PRIOR APPLICATION NUMBER: 60/551,570

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; PRIOR FILING DATE: 2004-03-09
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 2520
; TYPE: DNA
; ORGANISM: Homo Sapiens
; NAME/KEY: variation
; LOCATION: (0)...(0)
; OTHER INFORMATION: Variant Y5111C
US-11-076-431-3

Query Match      26.7%; Score 659.2; DB 12; Length 2520;
Best Local Similarity 61.0%; Pred. No. 4.3e-163;
Matches 1205; Conservative 0; Mismatches 733; Indels 36; Gaps 7;

QY 316 TTTGACCGAGATCGGCTCTTCAATGGCGTCTCCGGGGTGTCCCGAGGATCTGGCTGGA 375
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 337 TATGATCGCAGGAGTATCTTTGAAGCGTTGCTCAGAAATACTGCCAGGATCTGGAGAC 396
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 376 CTTCCAGAGTACCTGAGCAGACCCAGCAAGTACCTCACCGACTCGGAATACACAGAGGGC 435
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 397 CTGCTGCTCTCTCGAGAGAGCAAGACACCTCACAGCAACAGAGTTCAAGACCCCT 456
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 436 TCCACAGGTAAAGACGTGCTGTGATGAAGGCTGTGCTGAACCTTAAGGACGGAGTCAATGCC 495
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 457 GAGACGGGAAGACCTGTCTGCTGAAAGCCATGCTCAACCTGCACGAGGACAGAACACC 516
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 496 TGCATCTGCCACTGCTGAGAGTGCACAGGAGTCTTGGGAATCTCAGCCCCCTGGTAAT 555
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 517 ACCATCCCCCTGCTCTGGAGATCGCGCGCAACCGACAGCCCTGGAAGAGCTTGTCAAC 576
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 556 GCCCAGTGCACAGTACTATTACGAGGCCACAGCGCTCTGCACATCGCCATTGAGAAG 615
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 577 GCCAGCTACACGACAGCTACTAAGGGCCACAGACACTGCACATCGCCATCGAGAGA 636
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 616 AGGAGTCTGCAGTGTGTGAAGCTCTCGTGGAGAAAGGGGCCAATGTGCATGCCCGGCC 675
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 637 CGCAACATGCCCTGTGTGACCTCTCTGTGGAGAACGGAGCAGACGTCCAGGCTGCGGCC 696
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 676 TGGCGCCGCTTCTTCAGAAAGGGCAAG----GACATTGCTTTTATTTCGGTGAAGTACCC 732
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 697 CATGGGACCTCTTTAAGAAACCAAGGGCGGCTGGATTCTACTTTCGGTGAACCTGCC 756
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 733 CTCTCTTGGCCGCTTGCACCAAGCAGTGGATGTGTGAAGTACCTCTCGGAGAACCCA 792
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 757 CTGTCTCGCGCGTGCACCAACAGCTGGGANTCGTGAAGTTCTGTCTGCAGAACTCC 816
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 793 CACCAGCCGCCAGCTGCAGGCCACTGACTCCAGGGCAACACAGTCTCTGCATGCCCTA 852
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 817 TGGCAGACGCCGACATCAGGCCAGGACTCGGTGGGCAACACGCTGTGCACGCCCTG 876
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 853 GTGATGATCTGGCAAACTCAGCTGAGAAACATTGCACTGTGTGACCAAGCATGTATGATGG 912
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 877 GTGAGGTGGCCGACAAACAGCGCCGCAACACCAAGTTTGTGACGAGCATGTACAATGAG 936
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 913 CTCTCTCAAGTGGGGCCGCTCTGCTGCTACCGTGCAGCTTGAGGACATCCGCAACCTG 972
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 937 ATCTGATGTGGGGGCAAACTGCACCCGACGCTGAAGCTGGAGGAGCTCACCAACAG 996
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 973 CAGGATCTCAGCCTCTGAAGCTGGCCGCAAGGAGGGCAAGATCGAGATTTTCAGGCAC 1032
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 997 AAGGNAATGACCGCTGGCTCTGGCAGCTGGGACCGGGAAGATCGGGGCTTGGCCTAT 1056
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 1033 ATCTCAGCGGGAGTT-----TTCAAGACTGAGCCACCTTTCCCGAAAGTTTCAACGAG 1086
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 1057 ATCTCAGCGGGAGATCCAGGAGCCCGAGTGCAGGCACCTGTCTCAGGAAAGTTCAACGAG 1116
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 1087 TGTGTCTATGGGCTGTGCTGTGATGACCTGTGCTTCTGTGGACAGCTGTGAG 1146
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
QY 1117 TGGGCCCTACGGGCCCGTGCACTCTCTGTGTAAGACCTGTCTGCTGATCGACACCTGCGAG 1176
Db      ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||

1147 GAGAACTCAGTCTGAGGATCATTTGCTTTCATTGCA----AGAGCCCGCACCAGACCGA 1203
1177 AAGAACTCTGGTCTGAGGATGATCGCCTACAGCAGCAGGAGACCCCTAATGCCACGAC 1236
1204 ATGGTCTGTTTTGGAGCCCTGAACAACTGCTGAGGCGAAATGGGA---TCTGCTCATC 1260
1237 ATGCTCTTGGTGGAGCCGCTGAACCGACTCTCTGAGGACAAAGTGGACAGATTCGTCAG 1296
1261 CCCAAGTTCTCTTAAACTTCTGTTGTAATCTGATCTACATGTTCAATCTTCAACCGTGT 1320
1297 CGCATCTTCTACTTCAACTTCTGTTGTTACTGCTGTATCATGATCATCTTCCACATGGCT 1356
1321 GCTTACCATCAGCTTACCTGAAGAGAGGCGGCCCTCCTCCTGAAAGGGAGGTTGGA 1380
1357 GCTTACTACAGGCC-----CGTGGATGGCTTGGCTCCCTTTAAGATGGAAGAACTGGA 1410
1381 AACTCATGCTGCTGACGGGCCACATCTTATCTCTGCTAGGGGGGATCTACCTCTCTCGTG 1440
1411 GACTATTTCCGAGTTACTGAGAGATCTGTCTGTGTTAGGAGGAGTCTACTTCTTTTTC 1470
1441 GGCAGCTGTGTTACTTCTGGCGGCGCACGTTTCTCATCTGGATCTCTGTTATAGACAGC 1500
1471 CGAGGGATTCAATTTCTCTGAGAGCGCGCTGATGAAGACCCCTGTTTGTGGACAGC 1530
1501 TACTTTGAAATCCTCTTCTGTTTCAGGCGCTGCTCACAGTGGTGTCCAGGTGCTGTGT 1560
1531 TGCAGTGAGATGTTTCTTCTGCAAGTCACTGTTTCATGCTGGCCACCGTGGTGTGTG 1590
1561 TTCTCGCCCATCGAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1620
1591 TTGAGCCACTCAAGAGATGTGGTTCATGTTATTTCTCTGCTGCTGCTGCTGCTGCTG 1650
1621 AACCTCTTTTACTATACAGTGTCTTCAGACACACAGGATCTACAGTGTGATGATCCAG 1680
1651 AACATGCTCTACTACACCCCGGTTTTCCAGCAGATGGGATCTATGCGGTCAATGATAG 1710
1681 AGGTGATCTCTGGGAGCTGCTGCTGCTTCTTCTGATCTACTTACTTCTCTTCTTCTG 1740
1711 AAGATGATCTGAGAGACCTGTCGCTTTTCTATGTTGTTCTATCATCTCTTCTTCTG 1770
1741 TTGCTGTAGCTGTGTGAGCTGTGAGCAGGAGGCTTGGCGCCCGAAGCTCTCATAGGC 1800
1771 TTTTCCACAGCGTGTGTGAGCTGTATGAGACGGGAAGATGACTCTCTGCTGCTGCTG 1830
1801 CCCAATGCCACAGTCACTGAGCAGCCCATGAGGGGACAGAGGACAGAGGCAACGCGGCC 1860
1831 TCCACGCTC-----GCACAGGTGGCGGGGCTGCTGCTGAGGCGCCCGCATAGC 1878
1861 CAGTACAGGGGTATCTGGAAGCCTCTTGGAGCTCTTCAAAATTCACCATCGGCATGGGC 1920
1879 TCTTACAACAGCCTGTACTCCACCTGCTGGAGCTGTTCAGTTCACCATCGGCATGGGC 1938
1921 GAGTGGCCTTCCAGGAGCAGCTGCATTCGCGGATGCTGCTGCTGCTGCTGCTGCTG 1980
1939 GACTGAGTTCTAGAGAACTATGACTTCAAGCTGTCTTCAATCATCTCTGCTGCTG 1998
1981 TAGCTGCTGCTACCTACATCTCTGCTCAACATGCTCATTCGCCCTCATAGCGAGACC 2040
1999 TATGTAATCTCACTACATCTCTCTGCTCAACATGCTCATCGCCCTCATGGGTGAGACT 2058
2041 GTCAACAGTGTGCCCATGACAGCTGAGGATCTGGAAGCTGCAAGAGCCATCTCTGTC 2100
2059 GTCAACAGATCGCAGGAGAGCAAGACATCTGGAAGCTGCAAGAGCCATCACCATC 2118
2101 CTGAGATGAGAAATGCTTATGTTGTTGAGGAAGAAAG---CAGCGGGGAGGTGTGATG 2157
2119 CTGACACGAGGAAGAGCTTCTTAAGTGAATGAGGAAGGCTTCCGCTCAGGCAAGCTG 2178
2158 CTGACGCTTGGCACTAAGCCAGATGGCAGCCCGGATGAGCGCTGTGCTTTCAGGGTGGAG 2217
2179 CTGAGGTGGGTACACACCTGATGGCAAGGACGACTACCGGTGGTGTCTTTCAGGGTGGAC 2238
2218 GAGGTGAATGCGGCTTTCATGGGAGCAGACGCTGCTTACGCTGTGTGAGGACCGG 2271
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Db      2239 GAGGTGAAGTGGACACCTGGAAACACCAACCTGGGGCATCATCAACGAAGACCCG 2292
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RESULT 4
US-11-005-216-1
; Sequence 1, Application US/11005216
; Publication No. US20050287633A1
; GENERAL INFORMATION:
; APPLICANT: McIntyre, Peter
; APPLICANT: James, Iain Fraser
; TITLE OF INVENTION: Human Vanilloid Receptor
; FILE REFERENCE: 4-30875A
; CURRENT APPLICATION NUMBER: US/11/005,216
; CURRENT FILING DATE: 2004-12-06
; PRIOR APPLICATION NUMBER: US/09/533,220
; PRIOR FILING DATE: 2000-03-23
; PRIOR APPLICATION NUMBER: UNITED KINGDOM 9907097.1
; PRIOR FILING DATE: 1999-03-26
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: PatentIn Ver. 1.30
; SEQ ID NO 1
; LENGTH: 3463
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (359)..(2875)
US-11-005-216-1

Query Match      26.7%; Score 659.2; DB 12; Length 3463;
Best Local Similarity 61.0%; Pred. No. 4.6e-163;
Matches 1205; Conservative 0; Mismatches 733; Indels 36; Gaps 7;

Qy      316 TTTGACCGAGATCGGCTTTCATGCGGTCTCCCGGGGTGTCCCGGAGATCTGGTGGA 375
Db      695 TATGATCGCAGGAGTATCTTTGAAGCCGTGTGCTCAGAATAACTGCCAGGATCTGGAGAGC 754
Qy      376 CTTCCAGAGTACCTGAGCAAGACACGAACTGCTGCAAGCTTCAACGAGTTCGGAATACACAGAGGC 435
Db      755 CTGCTGCTTCTTCCGAGAGAGCAAGAGACCTTCAAGAACACGAGTTCGAAGACCTT 814
Qy      436 TCCACAGGTAAAGCTGCTGATGAAGGCTGTGCTGAACCTTAAAGGACGGAGTCAATGCC 495
Db      815 GAGACAGGAGAGACTGTGCTGTAAGCCATGTCTCACTGACAGACGACAGAACACC 874
Qy      496 TGCATTCGCACTGTGTCAGATCGACAGGAGCTCTGGCAATCTCAGCCCCCTGGTAAAT 555
Db      875 ACCATCCCTCTGCTTCTGGAGATCGCGCGCAACCGACAGCCCTGMAAGGAGCTTGTCAAC 934
Qy      556 GCCCAGTGCACAGATGACTATTACCGAGGCCACAGCGCTCTGACATCGGCATGGAAG 615
Db      935 GCCCAGTACACGGACAGCTACTACAAGGGCCAGACAGCACTGCAACATCGCCATCGAGAGA 994
Qy      616 AGGAGTCTGCAGTGTGTAAGCTCTCTGTGAGAAATGGGGCAATGTGCAATGCCCGGCC 675
Db      995 CGCAACATGGCCCTGGTGACCTCTCTGTGAGAAACGAGGACAGCTCCAGGCTGCGGCC 1054
Qy      676 TGGCGCCGCTTCTTCCAGAAAGGCCAAG--GGAATTGCTTTTATTTGGTGAGCTACCC 732
Db      1055 CATGGGACCTCTTTAAGAAACCAAGGGCGGCTGATTTCTACTTCTGGTGAATCGCC 1114
Qy      733 CTCTCTTTGGCGCTTTCACCAAGCAGTGGATGTGTAGCTACCTCTCTGGAGAACCA 792
Db      1115 CTGTCTCTGGCGGTGCAACCAACAGCTGGGCACTGTGAAGTTCTCTGCTGCAAGACTCC 1174
Qy      793 CACCAGCCCGCAGCTTGCAGGCCACTGACTCTCCAGGCCAACAGCTCTGCAATGCCCTA 852
Db      1175 TGGCAGACGGCCGACATCAGGCCCAAGGACTCGGTGGGCAACACGGTGTGACGCCCTG 1234
Qy      853 GTGATGATCTGGCAAACTCAGCTGAGAACATTCGACTGGTGACAGCAGATGTATGATGGG 912
Db      1235 GTGAGGTGGCCGACAAACAGGCCGACAAACAGGAAGTTTGTGACGAGCATGTACAATGAG 1294
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Qy      913 CTCCTCAAGCTGGGGCCCGCTCTGCGCTTACCGTGCAGCTTGAGGACATCCGCAACCTG 972
Db      1295 ATTCTGATCTGGGGCCAAACTGCACCCGACGCTGAGCTGGAGGAGCTCACCAACAAG 1354
Qy      973 CAGGATCTCAGCGCTCTGAAGCTGGCCGCAAGAGGGCAAGATCGAGATTTTCAGGCAC 1032
Db      1355 AAGGGAATGATCGCGCTGGCTCTGGCAGCTGGGACCGGGAAGATCGGGGTCTTGGCCCTAT 1414
Qy      1033 ATCTGCGAGCGGGAGTT-----TTCAGGACTGAGCCACCTTTTCCGAAAGTTTACCAG 1086
Db      1415 ATTCTCAGCGGGAGATCCAGAGCCCGAGTGTCAGGCACTGTCTCCAGGAAGTTTACCAG 1474
Qy      1087 TGGTGCTATGCGGCTGTCCGGGTGTCTGCTGTATGACCTGGCTTCTGTGGACAGCTGTGAG 1146
Db      1475 TGGGCTTACCGGCCCGTGCACTCTCTGCTGTACGACCTGTCTCTGCATCGACACCTGCGAG 1534
Qy      1147 GAGAACTCAGTGTCTGGAGATCATTTGCCCTTTTCATTGCA---AGAGCCCGCACACCGA 1203
Db      1535 AAGAACTCGGTGTGGAGGTGATCGCTACAGCAGCAGCGAGACCCCTTAATCGCCACGAC 1594
Qy      1204 ATGGTGGTTTGGAGCCCTGAAACAAACTGCTGCGAGCGGAATGGGA---TCTGCTCATC 1260
Db      1595 ATGCTCTTGGTGGAGCGCTGAACCCGACTCTCTGAGGACCAAGTGGGACAGATTCTGTCAG 1654
Qy      1261 CCCAAGTTTCTTTAAACTTCTCTGTGTAATCTGATCTACATGTTTTCATCTTCAACCGCTGT 1320
Db      1655 CGCATCTTCTACTTCAACTTCTCTGCTGTCTGCTGTACATGATCATCTTCAACATGGCT 1714.
Qy      1321 GCCTACCATCAGCCTACCTTGAAGAAGCAGCGCCGCTCACCCTGAAGCGAGGTTTGA 1380
Db      1715 GCCTACTACAGGCC-----CGTGGATGGCTTGCCTCCCTTAAAGATGGAAGAACTGA 1768
Qy      1381 AACTCCATGCTGTGAGCGGCCACATCCTTATCTCTGTAGGGGGATCTACTCTCTGCTG 1440
Db      1769 GACTATTTCGAGTACTTGGAGAGATCTCTGTGTGTAGGAGAGTCTACTTCTTTTTC 1828
Qy      1441 GGCAGCTGTGTACTTCTGCGCGGCCACCGTGTTCATCTGATCTCGTTCATAGACAGC 1500
Db      1829 CGAGGATTCAGTATTTCCTGAGAGCGCGCTGCGATGAAGACCTGTGTTGTGACAGC 1888
Qy      1501 TACTTTGAAATCCTTCTCTGTTTCCAGGCCCTGTCTACAGTGTGTGCCAGGTGCTGTGT 1560
Db      1889 TACAGTGAGATGCTTTTCTTCTGCACTCACTGTTTCACTGTGCGCAACGCTGCTGTGAC 1948
Qy      1561 TTCTGTGCCATTCAGTGTGTACTGCGCCCTGCTGTGTGTCTGCGTGTGTGTGGCTGTGGCTG 1620
Db      1949 TTCAGCCACCTCAAGGAGTATGTGGCTTCCATGGTATTTCTCCCTGGCTTGGGCTGGACC 2008
Qy      1621 AACCTGCTTTTACTATACAGCTGGCTTCCAGCACACAGGCACTTACAGTGTCTATGATCCAG 1680
Db      2009 AACATGCTTACTACTACACCCCGGTTTCCAGAGATGGGCACTATATGCCGTCATGATAG 2068
Qy      1681 AAGGTCACTCTGGGGACCTGCTGCGCTTCTTCTGATCTTACTTACTTCTCTTTTTCGGC 1740
Db      2069 AAGATGATCTTGAGAGACCTGTGCGCTTTCATGTTGTCTTACATCTGCTTCTTCTTGG 2128
Qy      1741 TTGCTGTAGCCCTGTGTGAGCTGTGAGCCAGGAGCTTTGGCGCCCGCCGAAGCTCTTACAGGC 1800
Db      2129 TTTTTCACACGCGGTGTGTGAGCTGATTTGAAGAAGCGGAAAGATGATGATCTCTGCTGCTG 2188
Qy      1801 CCCAATGCCACAGATCAGTGTGAGCCCATCGAGGGACAGGAGGAGGCAACGCGGCC 1860
Db      2189 TCCACGTC-----GCACAGGTGGCGGGGCTGCTGCTGACAGGCCCGCCGATAGC 2236
Qy      1861 CAGTACAGGGGTATCTCTGGAAGCTCTCTTGGAGCTCTTCAAATTTCAACATCGGCATGGGC 1920
Db      2237 TCCTACACAGCCTGTACTCCACTGCTGGAGCTGTTCAGTTTCAACATCGGCATGGGC 2296
Qy      1921 GAGTGTGCTTTCAGGAGCAGCTGCATCTTCGCGGCAATGTGTGTGTGTGTGTGTGTGTGTG 1980
Db      2297 GACTGTGAGTTTCACTGAGAACTATGACTTCAAGGCTGTCTTCACTCATCTCTGCTGTGCTG 2356
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Query Match 3.2%; Score 77.8; DB 8; Length 1674;
Best Local Similarity 53.9%; Pred. No. 2.4e-10;
Matches 160; Conservative 0; Mismatches 137; Indels 0; Gaps 0;

QY 1474 TTCAATGGATCTCGTTTCATAGACAGTACTTTGAAATCTCTTCTGTTCCAGGCCCTG 1533
DB TTTCTTTGGACAGACCATCTCTGGGGGCCATTCCATGTCTCATCATCATCATATGCTTTC 798

QY 1534 CTCACAGTGTGTCCAGAGTGTGTCTTCTCGGCCCATCGAGTGTACCTGCCCTGTCT 1593
DB 799 ATGGTGTGTGTACCATGT 858

QY 1594 GTGTCTGCGT 1653
DB 859 TCCTTTTGCACTCTGT 918

QY 1654 ACAGGANTCTACAGT 1713
DB 919 CTAGGGCCCTTCCACATCATGATTTCCAGAGATGATTTTGGCGACCTGATGCGATTCT 978

QY 1714 CTGATCTACTTACTTCTCTTTTGGCTTGGCTGTGTGTGTGTGTGTGTGTGTGTGT 1770
DB 979 TGGCTGATGCTGT 1035

RESULT 9

US-10-511-538-100
; Sequence 100, Application US/10511538
; Publication No. US20060026700A1
; GENERAL INFORMATION:
; APPLICANT: Origene Technologies, Inc
; TITLE OF INVENTION: TISSUE SPECIFIC GENES AND GENE CLUSTERS
; FILE REFERENCE: 16U 200 PCT
; CURRENT APPLICATION NUMBER: US/10/511,538
; CURRENT FILING DATE: 2004-10-18
; PRIOR APPLICATION NUMBER: US 60/372,669
; PRIOR FILING DATE: 2002-04-16
; PRIOR APPLICATION NUMBER: US 60/411,882
; PRIOR FILING DATE: 2002-09-20
; PRIOR APPLICATION NUMBER: US 60/424,336
; PRIOR FILING DATE: 2002-11-07
; PRIOR APPLICATION NUMBER: US 60/374,823
; PRIOR FILING DATE: 2002-04-24
; PRIOR APPLICATION NUMBER: US 60/376,558
; PRIOR FILING DATE: 2002-05-01
; PRIOR APPLICATION NUMBER: US 60/381,366
; PRIOR FILING DATE: 2002-05-20
; PRIOR APPLICATION NUMBER: US 60/403,648
; PRIOR FILING DATE: 2002-08-16
; NUMBER OF SEQ ID NOS: 344
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 100
; LENGTH: 2953
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (350)..(2536)
; OTHER INFORMATION:
US-10-511-538-100

Query Match 3.0%; Score 75; DB 7; Length 2953;
Best Local Similarity 44.8%; Pred. No. 1.5e-09;
Matches 560; Conservative 0; Mismatches 640; Indels 51; Gaps 5;

QY 547 CTGGTAAATGCCAGTGCACAGATGACTATTACCGAGGCCACAGCGCTCTGCACATGCC 606
DB 662 CTGGTCTTTTGAGCCCAACATGTGAGGCTTTTGCAGGTGAGCTGCACTGCACATCGCT 721

QY 607 ATTGAGAAAGGAGTCTGCAAGTGTGTGAAGCTCTGTGTGAGAGATGGGGCAATGTGCAT 666
DB 722 GTTGTGAACAGAAATGTGAACCTGGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 781

QY 667 GCCCGGGCTCGCGCGCTTCTTCCAGAGGGCCAAAGGACTTGTCTTTTATTTTCGGTGAG 726
DB 782 GCCAGAGCCACAGGCACCTGCTTCCGCGTAGTCCCGCAACCTCATCTACTTTGGGAG 841

QY 727 CTACCCCTCTCTTTGGCGCTTGCACCAAGCAGTGGGATGTGGTAAGCTACCTCTCGGAG 786
DB 842 CACCCCTTTTGTCTCTGT 901

QY 787 AACCACACACAGCCCGCCAGCCTGTGAGGCCACTGTCTCCAGGGCAACACAGTCTCTGCA 846
DB 902 -----CATGGAGCTGACATCAGGGCCAGGACTCTCTGGGAAACACAGTATTACAC 952

QY 847 GGCCTAGTGATGATCTCGGACAACTCAGCTGAGAAACATTGCACTGGTGTGACAGCATGTAT 906
DB 953 ATCTCTCATCTCTCAGCCCAACAAACCTTTGCTG-----CCAGATGTAC 997

QY 907 GATGGGCTCTCAAGCTGGGGCCCGCTCTGCGCTACCGTGCAGCTTGAGGACATCCGC 966
DB 998 AACCTGCTGCTCTCTTACGATGGGACCACTGCAGCCCTTGGACCTTGTGCC 1057

QY 967 AACCTGCAGGATCTCAGCGCTCTGAAGCTGGCGCCCAAGGAGGGCAAGATCGAGATTTTC 1026
DB 1058 AATCACCAGGGTCTCACCCTTCAAGCTGGCTGAGTGGAGGTAACACTGTGTGATGTTTC 1117

QY 1027 AGGCACAT-----CCTGCAGCGGAGTCTTTTCAGGACTGAGCCACCTT 1068
DB 1118 CAGCAGCTGATGAGAGCGGAGGCACATCCAGTGGACGTATGGACCTTGCATTCAT 1177

QY 1069 TCCGAAAGTTTACCGAGTGTGTCTATGGGCTGTCCGGTGTCCGTGTATGACC---TG 1125
DB 1178 CTCTAGACCTCAGAGATCGACTCTCTGGGAGAGGAGCTGTCTCTTCTGGAGCTGTG 1237

QY 1126 GCTTCTGTGAGCAGCTGTGAGGAGAACTCAGTGTGTGAGATCATTTGCCCTTTCATT 1185
DB 1238 GTCTCTCTGTATAACAGAGAGGCTGCGCAATTTCTGGAACAGCCAGTGAAGGAGCTG 1297

QY 1186 AGCCCGCACCGACACCGAATGGTGTGTTTGGAGCCCTTGAACAAACTGTGTCAGGCGAA 1245
DB 1298 GTGAGCTTCAAGTGGAAACAAGTATGGCGCGGTACTTCTGCACTCTGGCTGTGTAC 1357

QY 1246 TGGGATCTGCTCATCCCCAAGTTCTTTAACTTCTGTGTATATCTGTATCTATATGTTTC 1305
DB 1358 CTGCTCTACATGATCTGTCTTTTACCAGTGTGCGTCTACCGCCCTTAAAGTTTCGTGT 1417

QY 1306 ATCTTCCACGCTGTGCTTACCCTACCATCAGCCTACCTGAAAGAGCAGGCCCTCACCTG 1365
DB 1418 GGAACCGCACTCATTTCTCGAGACATCACATCTCCAGCAAAACTACTACAGGAGGCC 1477

QY 1366 AAAGCGGAGTTGGAATCTCCATGTGTGTCAGCGGCCACATCTTATCTGTCTAGGGGG 1425
DB 1478 TATGAGACACGTGAAGATATCATCAGGCTGGTGGGGAGCTGTGTGAGCATCGTTGGGG 1537

QY 1426 ATCTACCTCTCTGTGGCCAGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 1480
DB 1538 GTGATCATCTCTCTTAGAGATTCAGACATCTTCAGGGTGTGGTCCCTCTCGCTATTTT 1597

QY 1481 -GGATCTGTTTCATAGACAGTACTTTGAAATCTCTTCTGTTCAGGCGCTGTCTCACA 1539
DB 1598 GGAAGACGATTTCTTGGGGGCCATTCATGTGTATCATCATCATCATCATCATCATCATCAT 1657

QY 1540 GTGGTGTCCAGGT 1599
DB 1658 CTGTGACCATGT 1717

QY 1600 GCGT 1659
DB 1718 GCGCTGT 1777

QY 1660 ATCTACAGTGTATGATCCAGAGGTCATCTCTGCGGAGCTGTGTGTGTGTGTGTGTGTGT 1719
DB 1778 CCCTTCCATCATCATCATCATCATCATCATCATCATCATCATCATCATCATCATCATCAT 1837

; ORGANISM: Bovine 19866881552909
US-10-750-185-35754;

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| Best Local Similarity | 59.8%; | Pred. No. 0.00088; | | |
| Matches 107; | Conservative 0; | Mismatches 89; | Indels 3; | Gaps 1; |

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| Qy | 1162 | GAGATCATTTGCTTTTCATTGCAAGAGCCCGCACCGCAATGGTCTGTTTTGGAGCCC | 1221 |
| Db | 177 | GTGGCCCTCACCTCTCTTTGCTTCCCTTAGAATCGCCATGACATGCTCTTTGGTGGAGCCG | 236 |
| Qy | 1222 | CTGAACAACTGCTGCGAGCGCAATGGAT---CTGCTCATCCCCCAAGTTCTTCTTAAAC | 1278 |
| Db | 237 | CTGAACCGCTCTCTGCGAGCAAGTGGGACAGATTGTCAAGCGCATCTTCTACTTCAAC | 296 |
| Qy | 1279 | TTCTGTGTAACTGTGATCTACATGTTCACTTTCACCGCTGTGCTTACCATCAGCCTAC | 1337 |
| Db | 297 | TTCTTCGCTACTGCTTGTATATGATCATCTTACACAGGTGCGCTACTACAGACCTGC | 355 |

Search completed: February 19, 2006, 08:38:10
Job time : 707 secs

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GenCore version 5.1.7
Copyright (c) 1993 - 2006 Bioceleration Ltd.

OM nucleic - nucleic search, using sw model

Run on: February 19, 2006, 07:51:42 ; Search time 1959 Seconds
(without alignments)
10422.202 Million cell updates/sec

Title: US-09-445-614B-1
Perfect score: 2469
Sequence: 1 cagagccacgcagct.....gctggctctgggtccagct 2469

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 9793542 seqs, 4134589005 residues

Total number of hits satisfying chosen parameters: 19587084

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications NA Main:
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2: /cgn2_6/ptodata/1/pubpna/US08_PUBCOMB.seq.*
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6: /cgn2_6/ptodata/1/pubpna/US10B_PUBCOMB.seq.*
7: /cgn2_6/ptodata/1/pubpna/US10C_PUBCOMB.seq.*
8: /cgn2_6/ptodata/1/pubpna/US10D_PUBCOMB.seq.*
9: /cgn2_6/ptodata/1/pubpna/US10E_PUBCOMB.seq.*
10: /cgn2_6/ptodata/1/pubpna/US11_PUBCOMB.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | Query Match | Length | DB ID | Description |
|------------|--------|-------------|--------|-------|--------------------|
| 1 | 2462.2 | 99.7 | 2809 | 8 | US-10-757-262-25 |
| 2 | 2462.2 | 99.7 | 2809 | 10 | US-11-013-090-4 |
| 3 | 2455.8 | 99.5 | 2825 | 6 | US-10-168-651-30 |
| 4 | 2447.4 | 99.1 | 2867 | 6 | US-10-284-237-1401 |
| 5 | 2434.6 | 98.2 | 2805 | 5 | US-10-137-316-1 |
| 6 | 2378.4 | 96.3 | 2380 | 3 | US-09-978-303-35 |
| 7 | 2378.4 | 96.3 | 2380 | 9 | US-10-915-017-35 |
| 8 | 2293.4 | 92.9 | 2295 | 6 | US-10-342-844-67 |
| 9 | 2292 | 92.8 | 2292 | 10 | US-11-013-090-6 |
| 10 | 2283.2 | 91.7 | 2295 | 3 | US-10-342-844-69 |
| 11 | 2259.2 | 91.5 | 2779 | 3 | US-09-809-391-191 |
| 12 | 2259.2 | 91.5 | 2779 | 3 | US-09-882-171-191 |
| 13 | 2259.2 | 91.5 | 2779 | 6 | US-10-164-861-191 |
| 14 | 2061.8 | 83.5 | 2860 | 3 | US-09-809-391-314 |
| 15 | 2061.8 | 83.5 | 2860 | 3 | US-09-882-171-314 |
| 16 | 2061.8 | 83.5 | 2860 | 6 | US-10-164-861-314 |
| 17 | 1933.4 | 78.3 | 1935 | 6 | US-10-342-844-43 |
| 18 | 1572 | 63.7 | 2824 | 9 | US-10-764-420-2281 |
| 19 | 1535.8 | 62.2 | 2271 | 6 | US-10-342-844-51 |
| 20 | 1529.4 | 61.9 | 2271 | 6 | US-10-342-844-85 |
| 21 | 1522.4 | 61.7 | 2736 | 3 | US-09-978-303-3 |
| 22 | 1522.4 | 61.7 | 2736 | 9 | US-10-915-017-3 |
| 23 | 1459.6 | 59.1 | 2286 | 6 | US-10-342-844-45 |

RESULT 1
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; Sequence 25, Application US/10757262
; Publication No. US20040197825A1
; GENERAL INFORMATION:
; APPLICANT: Karicheti, Venkateswarlu
; APPLICANT: Eliasof, Scott D.
; TITLE OF INVENTION: METHODS AND COMPOSITIONS FOR TREATING
; TITLE OF INVENTION: UROLOGICAL DISORDERS USING 44390, 54181, 211, 5687, 884,
; TITLE OF INVENTION: 1405, 636, 4421, 5410, 30905, 2045, 16405, 18560, 2047,
; TITLE OF INVENTION: 33751, 52872, 14063, 20739, 32544, 43239, 44373, 51164,
; TITLE OF INVENTION: 53010, 16852, 1587, 2207, 22245, 2387, 52908, 63112, 14990,
; TITLE OF INVENTION: 18547, 115, 579, 15985, 15625, 760, 18603, 2395, 2554, 8675,
; TITLE OF INVENTION: 32720, 4809, 14303, 16816, 17827, 32620, 577, 619, 1423,
; TITLE OF INVENTION: 2158, 8263, 15402, 16209, 16386, 21165, 30911, 41897, 1643,
; TITLE OF INVENTION: 2543, 9626, 13231, 32409, 84260, 2882, 8203, 32678 OR
; FILE REFERENCE: MEI03-007P1RNMNM
; CURRENT APPLICATION NUMBER: US/10757,262
; CURRENT FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: US 60/440,318
; PRIOR FILING DATE: 2003-01-15
; PRIOR APPLICATION NUMBER: US 60/444,783
; PRIOR FILING DATE: 2003-02-04
; PRIOR APPLICATION NUMBER: US 60/457,901
; PRIOR FILING DATE: 2003-03-27
; PRIOR APPLICATION NUMBER: US 60/468,775
; PRIOR FILING DATE: 2003-05-08
; PRIOR APPLICATION NUMBER: US 60/471,614
; PRIOR FILING DATE: 2003-05-19
; PRIOR APPLICATION NUMBER: US 60/478,742
; PRIOR FILING DATE: 2003-06-16
; PRIOR APPLICATION NUMBER: US 60/488,529
; PRIOR FILING DATE: 2003-07-18
; PRIOR APPLICATION NUMBER: US 60/491,156
; PRIOR FILING DATE: 2003-07-30
; PRIOR APPLICATION NUMBER: US 60/499,594
; PRIOR FILING DATE: 2003-09-02
; PRIOR APPLICATION NUMBER: US 60/506,332
; PRIOR FILING DATE: 2003-09-26
; NUMBER OF SEQ ID NOS: 136
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 25
; LENGTH: 2809
; TYPE: DNA

ALIGNMENTS

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| 24 | 1458 | 59.1 | 2286 | 6 | US-10-342-844-33 | Sequence 33, Appl |
| 25 | 1445.6 | 58.6 | 2289 | 6 | US-10-342-844-97 | Sequence 97, Appl |
| 26 | 1098.4 | 44.5 | 1794 | 10 | US-11-013-090-10 | Sequence 10, Appl |
| 27 | 1065.8 | 43.2 | 1662 | 10 | US-11-013-090-12 | Sequence 12, Appl |
| 28 | 1007.4 | 40.8 | 1489 | 10 | US-11-013-090-7 | Sequence 7, Appl |
| 29 | 1005.4 | 40.7 | 1308 | 10 | US-11-013-090-9 | Sequence 22, Appl |
| 30 | 750.8 | 30.4 | 884 | 3 | US-09-978-303-22 | Sequence 22, Appl |
| 31 | 750.8 | 30.4 | 884 | 9 | US-10-915-017-22 | Sequence 22, Appl |
| 32 | 711 | 28.8 | 876 | 3 | US-09-809-391-315 | Sequence 315, App |
| 33 | 711 | 28.8 | 876 | 3 | US-09-882-171-315 | Sequence 315, App |
| 34 | 711 | 28.8 | 876 | 6 | US-10-164-861-315 | Sequence 315, App |
| 35 | 675.4 | 27.4 | 891 | 9 | US-10-479-081-7 | Sequence 7, Appl |
| 36 | 662.4 | 26.8 | 2517 | 10 | US-11-013-090-3 | Sequence 3, Appl |
| 37 | 662.4 | 26.8 | 2520 | 6 | US-10-342-844-47 | Sequence 47, Appl |
| 38 | 662.4 | 26.8 | 2520 | 6 | US-10-342-844-73 | Sequence 73, Appl |
| 39 | 662.4 | 26.8 | 2520 | 6 | US-10-342-844-81 | Sequence 81, Appl |
| 40 | 662.4 | 26.8 | 3261 | 6 | US-10-131-997-120 | Sequence 120, App |
| 41 | 662.4 | 26.8 | 3909 | 10 | US-11-013-090-1 | Sequence 1, Appl |
| 42 | 662.4 | 26.8 | 4182 | 5 | US-10-246-435-2 | Sequence 2, Appl |
| 43 | 662.4 | 26.8 | 4203 | 5 | US-10-246-435-1 | Sequence 1, Appl |
| 44 | 660.8 | 26.8 | 2520 | 6 | US-10-342-844-41 | Sequence 41, Appl |
| 45 | 660.8 | 26.8 | 2544 | 3 | US-09-978-303-33 | Sequence 33, Appl |

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; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (361) ... (265)
US-10-757-262-25

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| Best Local Similarity | 99.9% | Pred. No. 0 | | |
| Matches 2464 | Conservative | 0 | Mismatches 3 | Indels 0 |

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| Db | 267 | CAACACCGACGCCGACGCTGGGAGGAGACAGSACCCCTTGACATCTCCATCTGCACAGAGG | 326 |
| Qy | 63 | TCCTGGCTGGACCGAGCAGCGCTCTCTCTCTAGATGACCTCACCCCTCCAGCTCTCCAGT | 122 |
| Db | 327 | TCCTGGCTGGACCGAGCAGCGCTCTCTCTCTAGATGACCTCACCCCTCCAGCTCTCCAGT | 386 |
| Qy | 123 | TTTTCAGGTTGGAGACATTAGATGGAGGCCAAGAAGATGGCTCTGAGGCGGACAGAGGAAA | 182 |
| Db | 387 | TTTTCAGGTTGGAGACATTAGATGGAGGCCAAGAAGATGGCTCTGAGGCGGACAGAGGAAA | 446 |
| Qy | 183 | GCTGGATTTTGGAGCGGGCTGCCCTCCATGGAGTCAAGTTCCAGGGCGAGACCGGAA | 242 |
| Db | 447 | GCTGGATTTTGGAGCGGGCTGCCCTCCATGGAGTCAAGTTCCAGGGCGAGACCGGAA | 506 |
| Qy | 243 | ATTTCGCCCTCAGATAGAGTCAACCTCAACTACCGAAAGGAAACAGGTGCCAGTCAAGCC | 302 |
| Db | 507 | ATTTCGCCCTCAGATAGAGTCAACCTCAACTACCGAAAGGAAACAGGTGCCAGTCAAGCC | 566 |
| Qy | 303 | GGATCCAAACCGGATTTTGACCGAGATCGGCTCTTCAATCGGGTCTCCCGGGGTGTCCCCGA | 362 |
| Db | 567 | GGATCCAAACCGGATTTTGACCGAGATCGGCTCTTCAATCGGGTCTCCCGGGGTGTCCCCGA | 626 |
| Qy | 363 | GGATCTGGCTGGACTTTCAGAGTACTCTGAGAGACAGCAAGATGACTCAACGACTCGGA | 422 |
| Db | 627 | GGATCTGGCTGGACTTTCAGAGTACTCTGAGAGACAGCAAGTACTCAACGACTCGGA | 686 |
| Qy | 423 | ATACACAGGGGTCCACAGGTAAGCGTCCCTGATGAAGCGCTGCTGAACCTTAAGGA | 482 |
| Db | 687 | ATACACAGGGGTCCACAGGTAAGCGTCCCTGATGAAGCGCTGCTGAACCTTAAGGA | 746 |
| Qy | 483 | CGGAGTCAATGCCCTGCAATTCTGCCACTGCTGCAGATCGACAGGAGCTCTGGCAATCCTCA | 542 |
| Db | 747 | CGGAGTCAATGCCCTGCAATTCTGCCACTGCTGCAGATCGACAGGAGCTCTGGCAATCCTCA | 806 |
| Qy | 543 | GCCTCTGGTAAATGCCCAAGTGCAAGATGACTATTATCCGAGGGCCACAGCGCTCTGCACAT | 602 |
| Db | 807 | GCCTCTGGTAAATGCCCAAGTGCAAGATGACTATTATCCGAGGGCCACAGCGCTCTGCACAT | 866 |
| Qy | 603 | CGCCATTGAGAGAGGAGTCTGCAGTGTGTGAAGCTCTCGTGGAGAAATGGGGCCAAATGT | 662 |
| Db | 867 | CGCCATTGAGAGAGGAGTCTGCAGTGTGTGAAGCTCTCGTGGAGAAATGGGGCCAAATGT | 926 |
| Qy | 663 | GCATGCCCGGCGCTGCGGCGCTTTCTTCAGAGGGCCAAAGGAGCTTGCTTTTATTTTCGG | 722 |
| Db | 927 | GCATGCCCGGCGCTGCGGCGCTTTCTTCAGAGGGCCAAAGGAGCTTGCTTTTATTTTCGG | 986 |
| Qy | 723 | TGAGCTACCCCTCTCTTTTGGCCGCTTGCAACCAAGCAGTGGGATGTGGTAAGCTACCTCCT | 782 |
| Db | 987 | TGAGCTACCCCTCTCTTTTGGCCGCTTGCAACCAAGCAGTGGGATGTGGTAAGCTACCTCCT | 1046 |
| Qy | 783 | GGAGAACCCACACAGGCCCGCAGCTTCGAGGGCCACTGACTCCCGAGGGCAACACAGTCTCT | 842 |
| Db | 1047 | GGAGAACCCACACAGGCCCGCAGCTTCGAGGGCCACTGACTCCCGAGGGCAACACAGTCTCT | 1106 |
| Qy | 843 | GCATGCCCTTAGTGATCTCTCGGACAACTCAGCTTGAGAACATTTGCATCTGGTACCAGCAT | 902 |
| Db | 1107 | GCATGCCCTTAGTGATCTCTCGGACAACTCAGCTTGAGAACATTTGCATCTGGTACCAGCAT | 1166 |
| Qy | 903 | GTAATGATGGGCTCTTCCAAAGTGGGGCCCGGCTCTGCCCCTACCGTGCAGCTTGAGGACAT | 962 |
| Db | 1167 | GTAATGATGGGCTCTTCCAAAGTGGGGCCCGCTCTGCGCTTACCGTGCAGCTTGAGGACAT | 1226 |

N:

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Db |||||
QY 2307 CAACAGTGTGCCACTGACAGCTGGAGCATCTGGAAGCTGAGAAAGCCATCTCTGTCT 2366
Db |||||
QY 2103 GGAGATGAGAAATGGCTATTGGTGTGAGGAAGAGCAGCGGCGAGGTGTGATGCTGAC 2162
Db |||||
QY 2367 GGAGATGAGAAATGGCTATTGGTGTGAGGAAGAGCAGCGGCGAGGTGTGATGCTGAC 2426
Db |||||
QY 2163 CGTTGGCACTAAGCCAGATGGCAGCCCGGATGAGCGCTGTGTCTTTCAGGGTGGAGGAGT 2222
Db |||||
QY 2427 CGTTGGCACTAAGCCAGATGGCAGCCCGGATGAGCGCTGTGTCTTTCAGGGTGGAGGAGT 2486
Db |||||
QY 2223 GAACTGGGCTTCATGGGAGCAGACGCTGCTTACGCTGTGTGTGAGGACCCGTCAGGGGACAG 2282
Db |||||
QY 2487 GAACTGGGCTTCATGGGAGCAGACGCTGCTTACGCTGTGTGTGAGGACCCGTCAGGGGACAG 2546
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QY 2283 TGTCCCTCGAACTCTCGAGAACCTGTCTGCTGCTTCCCTCCCAAGGAGGATGAGGATGG 2342
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QY 2547 TGTCCCTCGAACTCTCGAGAACCTGTCTGCTGCTTCCCTCCCAAGGAGGATGAGGATGG 2606
Db |||||
QY 2343 TGCCTCTGAGGAAACTATGTGCCGCTCCAGCTCTCCAGTCCCAACTGATGGCCAGATG 2402
Db |||||
QY 2607 TGCCTCTGAGGAAACTATGTGCCGCTCCAGCTCTCCAGTCCCAACTGATGGCCAGATG 2666
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RESULT 2

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; Sequence 4, Application US/11013090
; Publication No. US20050158827A1
; GENERAL INFORMATION:
; APPLICANT: Millennium Pharmaceuticals, Inc.
; APPLICANT: Curtis, Rory A.J.
; TITLE OF INVENTION: NOVEL MEMBERS OF THE CAPSAICIN/VANILLOID
; TITLE OF INVENTION: RECEPTOR FAMILY OF PROTEINS AND USES THEREOF
; FILE REFERENCE: MPI98-093P2RCP3DVIAH
; CURRENT APPLICATION NUMBER: US/11/013,090
; CURRENT FILING DATE: 2004-12-15
; PRIOR APPLICATION NUMBER: US 09/439,165
; PRIOR FILING DATE: 1999-11-12
; PRIOR APPLICATION NUMBER: US 09/421,134
; PRIOR FILING DATE: 1999-10-19
; PRIOR APPLICATION NUMBER: US 09/258,633
; PRIOR FILING DATE: 1999-02-26
; PRIOR APPLICATION NUMBER: US 60/114,078
; PRIOR FILING DATE: 1998-12-28
; PRIOR APPLICATION NUMBER: US 60/108,322
; PRIOR FILING DATE: 1998-11-13
; NUMBER OF SEQ ID NOS: 23
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; SEQ ID NO 4
; LENGTH: 2809
; TYPE: DNA
; ORGANISM: Homo Sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (361)....(2652)
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Matches 2464; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

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QY 267 CAACACCGCAGCGCAGCTGGAGGAGCAGAGGACCTTGACATCTCCATCTGCACAGAGG 326
Db |||||
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N:

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Db |||||
QY 327 TCCTGGTGGACCGAGCAGCCTCTCTCTCTAGATGACCTCACCTCAGCTCTCCAGT 386
Db |||||
QY 123 TTTTCAAGTGTGAGACATTTAGATGAGGCGCAAGAGATGGCTCTGAGGCGGACAGAGGAAA 182
Db |||||
QY 387 TTTTCAAGTGTGAGACATTTAGATGAGGCGCAAGAGATGGCTCTGAGGCGGACAGAGGAAA 446
Db |||||
QY 183 GCTCGATTTTGGGACCGGCTGCTCCATGAGTCAAGTTCAGGCGGAGGACCGGAA 242
Db |||||
QY 447 GCTCGATTTTGGGACCGGCTGCTCCATGAGTCAAGTTCAGGCGGAGGACCGGAA 506
Db |||||
QY 243 ATTCGCGCCTCAGATAAGAGTCAACCTCACTACCGAAAGGAAAAGTTCAGGCTGCGAGTCAAGC 302
Db |||||
QY 507 ATTCGCGCCTCAGATAAGAGTCAACCTCACTACCGAAAGGAAAAGTTCAGGCTGCGAGTCAAGC 566
Db |||||
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Db |||||
QY 567 GATTCGAAAACGATTTTGAACGAGATCGGCTCTTCAATGCGGTCTCCCGGGGTGTCCCGA 626
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QY 363 GGATCTGGCTGGACTTCCAGAGTACCTGACGACAGCAGCAAGTACCTCAAGGACTCGGA 422
Db |||||
QY 627 GGATCTGGCTGGACTTCCAGAGTACCTGACGACAGCAGCAAGTACCTCAAGGACTCGGA 686
Db |||||
QY 423 ATACACAGAGGCGCTCCACAGATGAGCTGCTGATGAAGCTCTGCTGAACCTTTAAGGA 482
Db |||||
QY 687 ATACACAGAGGCGCTCCACAGATGAGCTGCTGATGAAGCTCTGCTGAACCTTTAAGGA 746
Db |||||
QY 483 CGAGTCAATGCTGCAATTTGCACTGCTGCAATCGACAGGAGCTTGGCAATCTCTCA 542
Db |||||
QY 747 CGGAGTCAATGCTGCAATTTGCACTGCTGCAATCGACAGGAGCTTGGCAATCTCTCA 806
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QY 543 GCGGCTGGTAAATGCGCCAGTGCACAGATGATATTTACGAGGCGCACAGCGCTCTGCAAT 602
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QY 807 GCGGCTGGTAAATGCGCCAGTGCACAGATGATATTTACGAGGCGCACAGCGCTCTGCAAT 866
Db |||||
QY 603 CGCCATTGAGAGAGGAGTCTGCACTGTGTGAAGCTCTCTGTGAGAGTATGGGGCAATGT 662
Db |||||
QY 867 CGCCATTGAGAGAGGAGTCTGCACTGTGTGAAGCTCTCTGTGAGAGTATGGGGCAATGT 926
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QY 1083 CGAGTGTGTATGAGGCTGTGCGGTGTGCTGTATGACTGCTGGCTTCTGTGACAGCTG 1142
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QY 1347 CGAGTGTGTATGAGGCTGTGCGGTGTGCTGTATGACTGCTGGCTTCTGTGACAGCTG 1406
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 1743 CGCTGTAGCCTGCTGAGCTGACCCAGGAGGCTTGGCGCCCGAGAGCTCTACAGGCCC 1802
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 2127 GTACAGGGGTATCCTGGAAGCCTCCTTGGAGCTTTCAAATTCACCATCGGCATGGGCGA 2186
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 2367 GGAATGGAAATGGCTTATTTGGTGTGTCAGGAGAGACAGCGGCGAGGTGTGATGCTGAC 2426
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RESULT 3

US-10-168-651-30
 ; Sequence 30, Application US/10168651
 ; Publication No. US20030171275A1
 ; GENERAL INFORMATION:
 ; APPLICANT: INCYTE GENOMICS, INC.
 ; APPLICANT: BAUGHN, Mariah R.
 ; APPLICANT: BURFORD, Neil
 ; APPLICANT: AU-YOUNG, Janice
 ; APPLICANT: LU, Dyung Aina M.
 ; APPLICANT: YANG, Junming
 ; APPLICANT: REDDY, Roopa
 ; APPLICANT: LAL, Preeti
 ; APPLICANT: HILLMAN, Jennifer L.
 ; APPLICANT: AZIMZAI, Yalda
 ; APPLICANT: YUE, Henry
 ; APPLICANT: NGUYEN, Daniel B.
 ; APPLICANT: YAO, Monique G.
 ; APPLICANT: GANDHI, Ameeni R.
 ; APPLICANT: TANG, Y. Tom
 ; APPLICANT: KHAN, Farrah A.
 ; TITLE OF INVENTION: TRANSPORTERS AND ION CHANNELS
 ; FILE REFERENCE: PI-0005 PCT
 ; CURRENT APPLICATION NUMBER: US/10/168,651
 ; CURRENT FILING DATE: 2002-06-21
 ; PRIOR APPLICATION NUMBER: 60/172,000; 60/176,083; 60/177,332; 60/178,572; 60/179,758
 ; 60/181,625
 ; PRIOR FILING DATE: 1999-12-23; 2000-01-14; 2000-01-21; 2000-01-28; 2000-02-02;
 ; 2000-02-10
 ; NUMBER OF SEQ ID NOS: 54
 ; SOFTWARE: PERL Program
 ; SEQ ID NO 30
 ; LENGTH: 2825
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 ; FEATURE:
 ; NAME/KEY: misc feature
 ; OTHER INFORMATION: Incyte ID No. US20030171275A1 2446438CB1
 US-10-168-651-30

Query Match 99.5%; Score 2455.8; DB 6; Length 2825;
 Best Local Similarity 99.7%; Pred. No. 0;
 Matches 2460; Conservative 0; Mismatches 7; Indels 0; Gaps 0;
 QY 3 CGAGGCGGAGCGCGAGCTGGAGGAAAGAGAGGACCTTGACATCTCCATCTGCACAGAGG 62
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 QY 63 TCTGTGCTGGACCGAGCAGCCTCCTCCTCTAGATGACCTCCCTCCAGTCTCCAGT 122
 Db 378 TCTGTGCTGGACCGAGCAGCCTCCTCCTCTAGATGACCTCCCTCCAGTCTCCAGT 437
 QY 123 TTTTCAAGTTGGAGACATTAGATGGAGCCCAAGAGATGGCTCTGTAGCGCGACAGAGAAA 182

Db 438 TTTTCCAGTTTGGAGACATATAGATGCGAGGCGCAAGAGATGGCTCTGAGGCGGACAGAGGAAA 497
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Db 498 GCTGGATTTTGGAGCGGCTCCCTCCCATGAGTACAGATTTCCAGGGCGAGGACCGGAA 557
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Db 558 ATTCCGCCCTCAGATAAGAGTCAACTCAACTACCGAAAGGAAACAGGTGCGAGTCAGCC 617
Qy 303 GGATCCAAACCGATTTGACCGAGATCGGCTCTTCAATGGGTCTCCCGGGTGTCCCCGA 362
Db 618 GGATCCAAACCGATTTGACCGAGATCGGCTCTTCAATGGGTCTCCCGGGTGTCCCCGA 677
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Db 678 GGATCTGGCTGACCTTCAGAGTACCTGAGCAAGACACAGCAAGTACCTCACCGACTCGGA 737
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Db 798 CGGGTCAATGCTGCACTTCGCCACTGCTGCAAGTACAGAGGACTCTGGGAATCTTCA 857
Qy 543 GCCCTGTGTAATGCCAGTGCACAGATGACTATTACCGAGGCCACAGCGCTCTGCACAT 602
Db 858 GCCCTGTGTAATGCCAGTGCACAGATGACTATTACCGAGGCCACAGCGCTCTGCACAT 917
Qy 603 CGCCATTGAGAGGAGTCTGCAAGTGTGAAGCTCTGCTGAGAGTGGGGCCAAATGT 662
Db 918 CGCCATTGAGAGGAGTCTGCAAGTGTGAAGCTCTGCTGAGAGTGGGGCCAAATGT 977
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Qy 2103 GGAGATGGAGATGGCTATTGGTGTGCGAGAGAGAGCAGCGGCGAGTGTGATGCTGAC 2162
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Qy 2163 CGTTGGGACATAAGCGCAGATGGCAGCCCGAGATGAGCGCTGTGTTTACGGGTGAGGAGGT 2222
Db 2478 CGTTGGGACATAAGCGCAGATGGCAGCCCGAGATGAGCGCTGTGTTTACGGGTGAGGAGGT 2537
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| Qy | 2343 | TGCTCTGAGAGAACTATGTGCGCCCTCCAGCTCTCTCCAGTCCAACTGATGGCCAGATG | 2402 | Db | 483 | GCTGATTTTGGAGCGGCTGCTCCCATGGAGTACAGTTCCAGGGCGAGGACCGGAA | 542 |
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| Qy | 2403 | CAGCAGAGGCCAGAGGACAGAGCAGAGGATCTTTTCAACCAATCTGCTGGCTCTGGGG | 2462 | Db | 543 | ATTTCGCCCTCAGATAAGAGTCAACTCACTACCGAAAGGAAACAGGTGCCAGTCAGCC | 602 |
| Db | 2718 | CAGCAGAGGCCAGAGGACAGAGCAGAGGATCTTTTCAACCAATCTGCTGGCTCTGGGG | 2777 | Qy | 303 | GGATCCAAACCGATTGACCGAGATCGGCTCTTCAATCGGCTCTCCCGGGGTGTCCCCGA | 362 |
| Qy | 2463 | TCCCACT 2469 | | Db | 603 | GGATCCAAACCGATTGACCGAGATCGGCTCTTCAATCGGCTCTCCCGGGGTGTCCCCGA | 662 |
| Db | 2778 | TCCCACT 2784 | | Qy | 363 | GGATCTGGCTGACTTCCAGAGTACTGAGCAAGACCAGCAAGTACTCACCGACTCGGA | 422 |
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| US-10-264-237-1401 | | | | | | | |
| ; Sequence 1401, Application US/10264237 | | | | | | | |
| ; Publication No. US20040009491A1 | | | | | | | |
| ; GENERAL INFORMATION: | | | | | | | |
| ; APPLICANT: Bixse et al. | | | | | | | |
| ; TITLE OF INVENTION: Nucleic Acids, Proteins, and Antibodies | | | | | | | |
| ; FILE REFERENCE: P131P1 | | | | | | | |
| ; CURRENT APPLICATION NUMBER: US/10/264,237 | | | | | | | |
| ; CURRENT FILING DATE: 2002-10-04 | | | | | | | |
| ; PRIOR APPLICATION NUMBER: PCT/US01/16450 | | | | | | | |
| ; PRIOR FILING DATE: 2001-05-18 | | | | | | | |
| ; PRIOR APPLICATION NUMBER: US 60/205,515 | | | | | | | |
| ; PRIOR FILING DATE: 2000-05-19 | | | | | | | |
| ; NUMBER OF SEQ ID NOS: 2876 | | | | | | | |
| ; SOFTWARE: PatentIn Ver. 3.1 | | | | | | | |
| ; SEQ ID NO 1401 | | | | | | | |
| ; LENGTH: 2867 | | | | | | | |
| ; TYPE: DNA | | | | | | | |
| ; ORGANISM: Homo sapiens | | | | | | | |
| ; FEATURE: | | | | | | | |
| ; NAME/KEY: misc feature | | | | | | | |
| ; LOCATION: (2825)..(2825) | | | | | | | |
| ; OTHER INFORMATION: n equals a,t,g, or c | | | | | | | |
| ; FEATURE: | | | | | | | |
| ; NAME/KEY: misc feature | | | | | | | |
| ; LOCATION: (2845)..(2845) | | | | | | | |
| ; OTHER INFORMATION: n equals a,t,g, or c | | | | | | | |
| ; FEATURE: | | | | | | | |
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| ; OTHER INFORMATION: n equals a,t,g, or c | | | | | | | |
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| ; NAME/KEY: misc feature | | | | | | | |
| ; LOCATION: (2858)..(2858) | | | | | | | |
| ; OTHER INFORMATION: n equals a,t,g, or c | | | | | | | |
| ; FEATURE: | | | | | | | |
| ; NAME/KEY: misc feature | | | | | | | |
| ; LOCATION: (2866)..(2866) | | | | | | | |
| ; OTHER INFORMATION: n equals a,t,g, or c | | | | | | | |
| US-10-264-237-1401 | | | | | | | |
| Query Match | | | | | | | |
| Best Local Similarity 99.1%; Score 2447,4; DB 6; Length 2867; | | | | | | | |
| Matches 2459; Conservative 3; Mismatches 4; Indels 1; Gaps 1; | | | | | | | |
| Qy | 3 | CGAGGCCGACGCGCAGCTGGGAGGAGACAGAGGACCCCTTGACATCTCCATCTGCACAGAGG | 62 | Db | 1202 | GTATGATGGGCTCCTCCAAAGCTGGGGCCGCTCTGCCCCCTACCGTGCAGCTTGAGGACAT | 1261 |
| Db | 303 | CAACACCGACGCGCAGCTGGGAGGAGACAGAGGACCCCTTGACATCTCCATCTGCACAGAGG | 362 | Qy | 963 | CGCAACCTGCAGGATCTCAGCGCTCTGAAGCTGGCCGCCAAGAGGGGCAAGATCCAGAT | 1022 |
| Qy | 63 | TCCTGGCTGACCGAGCAGGCTCTCTCTCTAGATGACCTCACCTCCAGCTCTCCAGT | 122 | Db | 1262 | CCGCAACCTGCAGGATCTCAGCGCTCTGAAGCTGGCCGCCAAGAGGGGCAAGATCCAGAT | 1321 |
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| Qy | 123 | TTTCAGGCTTGAGACATTAGATGAGGCCAAGAGATGGCTCTGAGCGGACAGAGAAA | 182 | Db | 1322 | TTTCAGGACATCTCTGACGCGGAGTTTTCAGGACTGAGCCACCTTTCCCGAAAGTTCC | 1381 |
| Db | 423 | TTTCAGGCTTGAGACATTAGATGAGGCCAAGAGATGGCTCTGAGCGGACAGAGAAA | 482 | Qy | 1083 | CGAGTGGTGTATGGGCTCTGCGGGTGTGCTGTATGACCTGGCTCTGTGTGACAGCTG | 1142 |
| Qy | 183 | GCTGGATTTTGGGAGCGGCTGCTCCCTCCAGTGCAGTTCAGGCGGAGGACCGGAA | 242 | Db | 1382 | CGAGTGGTGTATGGGCTCTGCGGGTGTGCTGTATGACCTGGCTCTGTGTGACAGCTG | 1441 |

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Db 2162 GTACAGGGGTATCTTGAAGGCTCTTGGAGCTCTTCAATTTCAACCATCGGCATGGGCGA 2221
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Qy 2043 CAACAGTGTGCGCACTGACAGCTGGAGCATCTGGAAGCTGAGAAAGCCATCTGTGCTCT 2102
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Qy 2103 GGAGTGGAGAAATGGCTATTGGTGTGAGGAAGCAGCGGCGAGGTGTGATGTCTGAC 2162
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Qy 2163 GGTGGCACTAAGCCAGATGGCAGCCGAGTGTGCTGTGCTGTGCTGTGCTGTGAGGAGGT 2222
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Qy 2223 GAATGGGCTTTCATGGGAGCAGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2282
Db 2522 GAATGGGCTTTCATGGGAGCAGCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2581
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Qy 2343 TGCCTCTGAGGAAAACTATGTGCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 2402
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Qy 2403 CAGCAGGAGCCAGAGGACAGAGGATCTTTCCAAACCAATCTCTGCTCTGGG 2462
Db 2702 CAGCAGGAGCCAGAGGACAGAGGATCTTTCCAAACCAATCTCTGCTCTGGG 2761
Qy 2463 TCCAGT 2469
Db 2762 TCCAGT 2768

RESULT 5
US-10-137-316-1
; Sequence 1, Application US/10137316
; Publication No. US20030022289A1
; GENERAL INFORMATION:
; APPLICANT: Young, Paul E.
; APPLICANT: Ruben, Steven M.
; TITLE OF INVENTION: Vanilloid Receptor-2
; FILE REFERENCE: 1488.1110002
; CURRENT APPLICATION NUMBER: US/10/137,316
; CURRENT FILING DATE: 2002-05-03
; PRIOR APPLICATION NUMBER: US 09/132,316
; PRIOR FILING DATE: 1998-08-11
; NUMBER OF SEQ ID NOS: 67
; SOFTWARE: PatentIn Ver. 3.1
; SEQ ID NO 1
; LENGTH: 2805
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (5)..(2674)
US-10-137-316-1

Query Match 98.2%; Score 2424.6; DB 5; Length 2805;
Best Local Similarity 99.4%; Pred. No. 0;
Matches 2455; Conservative 0; Mismatches 9; Indels 5; Gaps 2;
Qy 3 CGAGGCCGACCGCAGCTGGAGGACAGAGGACCTTGACATCTCCATCTGCACAGAGG 62
Db 287 CAACACCGACCGCCGACGCTGGGAGGAGACAGGACCTTGACATCTCCATCTGCACAGAGG 346
Qy 63 TCCTGGCTGACCGAGC- -AGCCTCTCTCTTAGGATGACCTCACCTCCAGCTCTCCA 120
Db 347 TCCTGGCTGACCGAGCTATGCTCTCTCTCTTAGGATGACCTCACCTCCAGCTCTCCA 406
Qy 121 GTTTTCAGGTTGGAGCATTTAGATGGAGGCCAAGAGATGGCTCTGAGGCGGACAGAGGA 180
Db 407 GTTTTCAGGTTGGAGCATTTAGATGGAGGCCAAGAGATGGCTCTGAGGCGGACAGAGGA 466
Qy 181 AAGCTGGATTTTGGAGCGGCTGCTCCATCGAGTCAAGTTCCAGGGGAGGACCGG 240
Db 467 AAGCTGGATTTTGGAGCGGCTGCTCCATCGAGTCAAGTTCCAGGGGAGGACCGG 526
Qy 241 AAATTCGCCCTCAGATAAGAGTCAACCTCAACTACCGAAAGGAGAACAGGTGCCAGTCAG 300
Db 527 AAATTCGCCCTCAGATAAGAGTCAACCTCAACTACCGAAAGGAGAACAGGTGCCAGTCAG 586
Qy 301 CCGGATCCAAACCGATTTTGACCGAGATCGGCTCTTCAATCGGCTCTCCCGGGGTGTCGCC 360
Db 587 CCGGATCCAAACCGATTTTGACCGAGATCGGCTCTTCAATCGGCTCTCCCGGGGTGTCGCC 646
Qy 361 GAGGATCTGGCTGGACTTTCAGAGTACCTGAGCAAGACAGAGTACCTCAACGACTCG 420
Db 647 GAGGATCTGGCTGGACTTTCAGAGTACCTGAGCAAGACAGAGTACCTCAACGACTCG 706
Qy 421 GAATACACAGAGGCTCCACAGGTAAAGCTGCTGATGAAGCTGTGTAACCTTAAG 480
Db 707 GAATACACAGAGGCTCCACAGGTAAAGCTGCTGATGAAGCTGTGTAACCTTAAG 766
Qy 481 GACGGAGTCAATCCCTGCAATTTCTGCCACTGCTGCAGATCGACAGGGGACTCTGGCAATCCT 540
Db 767 GACGGGCTCAATGCTCTGCAATTTCTGCCACTGCTGCAGATCGACCGGGACTCTGGCAATCCT 826

541 QY CAGCCCTTGTAATAATGCCAGTGCACAGATGACTATTACCGAGGCCACACGCGCTGCGAC 600
827 Db CAGCCCTTGTAATAATGCCAGTGCACAGATGACTATTACCGAGGCCACACGCGCTGCGAC 886
601 QY ATCGCCATTGAGAAGAGGAGTCTGCAAGTGTGAAGTCTCTGCTGAGAGATGGGGCCAAT 660
887 Db ATCGCCATTGAGAAGAGGAGTCTGCAAGTGTGAAGTCTCTGCTGAGAGATGGGGCCAAT 946
661 QY GTGCATGCCGGGCCCTGCGGCCCTCTTCCAGAAGGCCCAAGGGACTTGTCTTTATTTC 720
947 Db GTGCATGCCGGGCCCTGCGGCCCTCTTCCAGAAGGCCCAAGGGACTTGTCTTTATTTC 1006
721 QY GGTGAGTACCCCTCTCTTTGGCCGCTTGCAACAAGCAGTGGGATGTGTAAGCTACCTC 780
1007 Db GGTGAGTACCCCTCTCTTTGGCCGCTTGCAACAAGCAGTGGGATGTGTAAGCTACCTC 1066
781 QY CTGGAGAACCCACACAGCCCGCAGCCTGCGAGCCACTGACTCCAGGGGCAACAGTTC 840
1067 Db CTGGAGAACCCACACAGCCCGCAGCCTGCGAGCCACTGACTCCAGGGGCAACAGTTC 1126
841 QY CTCGATGCCCTAGTGATGATCTCGGACAACTCAGCTGAGAACATTGCACTGGTGACCAGC 900
1127 Db CTCGATGCCCTAGTGATGATCTCGGACAACTCAGCTGAGAACATTGCACTGGTGACCAGC 1186
901 QY ATGTATGATGGGCTCTCTCAAGCTGGGGCCCGCCTCTGCCCCTACCGTGCAGCTTGGAGAC 960
1187 Db ATGTATGATGGGCTCTCTCAAGCTGGGGCCCGCCTCTGCCCCTACCGTGCAGCTTGGAGAC 1246
961 QY ATCCGGAACCTGAGAGATCTCAGCCCTTGAAGCTGGCCCGCCAGGAGGGCAAGATCGAG 1020
1247 Db ATCCGGAACCTGAGAGATCTCAGCCCTTGAAGCTGGCCCGCCAGGAGGGCAAGATCGAG 1306
1021 QY ATTTTCAGGCACATCTGCAAGCGGAGTTTTCAGGACTGAGCCACCTTTCCCGAAAGTTC 1080
1307 Db ATTTTCAGGCACATCTGCAAGCGGAGTTTTCAGGACTGAGCCACCTTTCCCGAAAGTTC 1366
1081 QY ACCGAGTGTGTATGGGCCCTGTCGGGGTGTGCTGTATGACCTGGGCTTCTGTGGACAGC 1140
1367 Db ACCGAGTGTGTATGGGCCCTGTCGGGGTGTGCTGTATGACCTGGGCTTCTGTGGACAGC 1426
1141 QY TGTGAGAGAACTCAGTGTGAGAGATCATTCGCTTCAATTTGCAAGAGCCCGGCAACGACAC 1200
1427 Db TGTGAGAGAACTCAGTGTGAGAGATCATTCGCTTCAATTTGCAAGAGCCCGGCAACGACAC 1486
1201 QY CGAATGTGTGTTTGGAGCCCTGAAACAACTGTCAGGCGAAATGGGATCTGCTCATC 1260
1487 Db CGAATGTGTGTTTGGAGCCCTGAAACAACTGTCAGGCGAAATGGGATCTGCTCATC 1546
1261 QY CCCAAGTTCCTTAAACTTCCTGTGTAATCTGATCTACATGTTTCATCTTTCAACCGCTGT 1320
1547 Db CCCAAGTTCCTTAAACTTCCTGTGTAATCTGATCTACATGTTTCATCTTTCAACCGCTGT 1606
1321 QY GCCTACATCAGCTACCTTGAAGAGCAGCGCCCGCTCACTGAAAGCGGAGTTGGA 1380
1607 Db GCCTACATCAGCTACCTTGAAGAGCAGCGCCCGCTCACTGAAAGCGGAGTTGGA 1663
1381 QY AACTCCATGCTGAGGGGCCATCTTATCTGTAGGGGGGATCTACCTCTCCGCTG 1440
1664 Db AACTCCATGCTGAGGGGCCATCTTATCTGTAGGGGGGATCTACCTCTCCGCTG 1723
1441 QY GGCAGCTGTGTACTTCTGGCGCGCCACGCTGTTCACTCTGGATCTCGTTTCATAGACAGC 1500
1724 Db GGCAGCTGTGTACTTCTGGCGCGCCACGCTGTTCACTCTGGATCTCGTTTCATAGACAGC 1783
1501 QY TACTTTGAAATCTCTTCTGTTCCAGGCCCTGCTCACTGAGTGTGCCAGGCTGTGTGT 1560
1784 Db TACTTTGAAATCTCTTCTGTTCCAGGCCCTGCTCACTGAGTGTGCCAGGCTGTGTGT 1843
1561 QY TTCTGGCCCATCGAGTGTACCTGCCCTGCTGTGTGTCGCTGGTGTGCTGGGCTGCTG 1620
1844 Db TTCTGGCCCATCGAGTGTACCTGCCCTGCTGTGTGTCGCTGGTGTGCTGGGCTGCTG 1903

1621 QY AACCTGCTTTTACTATACAGCTGGCTTTCAGACACAGGCATCTACAGTGTATGATCCAG 1680
1904 Db AACCTGCTTTTACTATACAGCTGGCTTTCAGACACAGGCATCTACAGTGTATGATCCAG 1963
1681 QY AAGGTTCATCTCGGGGACCTGCTGGCTTCTTCTTGATCTACTTACTTCTTCTTTTCGGC 1740
1964 Db AAGGTTCATCTCGGGGACCTGCTGGCTTCTTCTTGATCTACTTACTTCTTCTTTTCGGC 2023
1741 QY TTTCGCTGTAGCCCTGCTGAGCCTGAGCCAGGAGGCTTGGCCGCCAAGCTCTCTACAGGC 1800
2024 Db TTTCGCTGTAGCCCTGCTGAGCCTGAGCCAGGAGGCTTGGCCGCCAAGCTCTCTACAGGC 2083
1801 QY CCCAATGCCACAGAGTCACTGTCAGCCCATGAGAGGACAGAGGACAGAGGACACGGGGCC 1860
2084 Db CCCAATGCCACAGAGTCACTGTCAGCCCATGAGAGGACAGAGGACAGAGGACACGGGGCC 2143
1861 QY CAGTACAGGGGTATCTTGGAAGCCCTCTTGGAAGCTCTTCAAAATTCACCATCGGCATGGGC 1920
2144 Db CAGTACAGGGGTATCTTGGAAGCCCTCTTGGAAGCTCTTCAAAATTCACCATCGGCATGGGC 2203
1921 QY GAGCTGGCCCTTCAGAGAGCAGCTGCACCTTCCGCGGCATGGTGTGCTGTCTGTCTGGCC 1980
2204 Db GAGCTGGCCCTTCAGAGAGCAGCTGCACCTTCCGCGGCATGGTGTGCTGTCTGTCTGGCC 2263
1981 QY TACGTGCTGCTCACTTACATCTGCTGCTCAACATGCTCATTCGCCCTCATGAGCGAGACC 2040
2264 Db TACGTGCTGCTCACTTACATCTGCTGCTCAACATGCTCATTCGCCCTCATGAGCGAGACC 2323
2041 QY GTCAACAGTGTGCGCACTGACAGCTGAGAGCTGGAAGCTGCAAGGACCAATCTCTGTC 2100
2324 Db GTCAACAGTGTGCGCACTGACAGCTGAGAGCTGGAAGCTGCAAGGACCAATCTCTGTC 2383
2101 QY CTGGAGATGGAGAAATGGCTATTGGTGGTGCAGGAAAGACAGCGGCGAGGTGTGATGCTG 2160
2384 Db CTGGAGATGGAGAAATGGCTATTGGTGGTGCAGGAAAGACAGCGGCGAGGTGTGATGCTG 2443
2161 QY ACCGTTGGCACTAAGCCAGATGGCAGCCCGGATGAGCGCTGGTGTTCAGGGTGGAGGAG 2220
2444 Db ACCGTTGGCACTAAGCCAGATGGCAGCCCGGATGAGCGCTGGTGTTCAGGGTGGAGGAG 2503
2221 QY GTCACTGGGCTTCATGGGAGCAGACGCTGCTGAGGACCCGCTGAGGACCCGTCAGGGGCA 2280
2504 Db GTCACTGGGCTTCATGGGAGCAGACGCTGCTGAGGACCCGCTGAGGACCCGTCAGGGGCA 2563
2281 QY GGTGTCCTCGAACTCTCGAGAACCTGCTGGCTTCCCTCCCAAGGAGGATGAGGAT 2340
2564 Db GGTGTCCTCGAACTCTCGAGAACCTGCTGGCTTCCCTCCCAAGGAGGATGAGGAT 2623
2341 QY GGTGCTCTGAGGAAACTATGTGCCCGTCCAGCTCCTCGAGTCCAACTGATGGCCGAGA 2400
2624 Db GGTGCTCTGAGGAAACTATGTGCCCGTCCAGCTCCTCGAGTCCAACTGATGGCCGAGA 2683
2401 QY TGCAGCAGGAGGCCAGGACAGAGAGGATCTTTCCAAACCAACATCTGCTGCTCTGG 2460
2684 Db TGCAGCAGGAGGCCAGGACAGAGAGGATCTTTCCAAACCAACATCTGCTGCTCTGG 2743
2461 QY GGTCCCACT 2469
2744 Db GGTCCCACT 2752

RESULT 6

US-09-978-303-35
; Sequence 35, Application US/09978303
; Publication No. US20030049728A1
; GENERAL INFORMATION:
; APPLICANT: Julius, David J.
; APPLICANT: Caterina, Michael J.
; APPLICANT: Brake, Anthony J.
; TITLE OF INVENTION: Nucleic acid sequences encoding
; ; TITLE OF INVENTION: capsaicin receptor and capsaicin
; ; TITLE OF INVENTION: polypeptides and uses thereof
; ; FILE REFERENCE: UCAL084CON

```

; CURRENT APPLICATION NUMBER: US/09/978-303,35
; CURRENT FILING DATE: 2001-10-15
; PRIOR APPLICATION NUMBER: 09/235,451
; PRIOR FILING DATE: 1999-01-22
; PRIOR APPLICATION NUMBER: 60/072,151
; PRIOR FILING DATE: 1998-01-22
; PRIOR APPLICATION NUMBER: 08/915,461
; PRIOR FILING DATE: 1997-08-20
; NUMBER OF SEQ ID NOS: 48
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 35
; LENGTH: 2380
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-978-303-35

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[illegible]

RESULT 7

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US-10-915-017-35
; Sequence 35, Application US/10915017
; Publication No. US20050095650A1
; GENERAL INFORMATION:
; APPLICANT: Julius, David J.
; APPLICANT: Caterina, Michael J.
; APPLICANT: Brake, Anthony J.
; TITLE OF INVENTION: NUCLEIC ACID SEQUENCES ENCODING
; TITLE OF INVENTION: CAPSAICIN RECEPTOR AND CAPSAICIN RECEPTOR-RELATED
; TITLE OF INVENTION: POLYPEPTIDES AND USES THEREOF
; FILE REFERENCE: UCSF-084CON2
; CURRENT APPLICATION NUMBER: US/10/915,017
; CURRENT FILING DATE: 2004-08-09
; PRIOR APPLICATION NUMBER: 09/978,303
; PRIOR FILING DATE: 2001-10-15
; PRIOR APPLICATION NUMBER: 09/235,451
; PRIOR FILING DATE: 1999-01-22
; PRIOR APPLICATION NUMBER: 60/072,151
; PRIOR FILING DATE: 1998-01-22
; NUMBER OF SEQ ID NOS: 48
; SOFTWARE: fastseq for Windows Version 3.0
; SEQ ID NO 35
; LENGTH: 2380
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (19)...(2313)
; OTHER INFORMATION: Human VR2
US-10-915-017-35

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[illegible]

```

RESULT 8
US-10-342-844-67
; Sequence 67, Application US/10342844
; Publication No. US20040009537A1
; GENERAL INFORMATION:
; APPLICANT: Roos, Jack
; APPLICANT: Stauderman, Kenneth
; APPLICANT: Velicelebi, G'n'l
; TITLE OF INVENTION: METHODS OF MODULATING AND IDENTIFYING
; TITLE OF INVENTION: AGENTS THAT MODULATE INTRACELLULAR CALCIUM
; FILE REFERENCE: 37481-3307
; CURRENT APPLICATION NUMBER: US/10/342,844
; CURRENT FILING DATE: 2003-01-13
; PRIOR APPLICATION NUMBER: US 60/347,459
; PRIOR FILING DATE: 2002-01-11
; PRIOR APPLICATION NUMBER: US 60/401,171
; PRIOR FILING DATE: 2002-08-02
; PRIOR APPLICATION NUMBER: US 60/405,678
; PRIOR FILING DATE: 2002-08-20
; NUMBER OF SEQ ID NOS: 115
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 67
; LENGTH: 2295
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)....(2292)
; PUBLICATION INFORMATION:
; DATABASE ACCESSION NUMBER: Genbank AAD26363
; DATABASE ENTRY DATE: 1999-04-07
; US-10-342-844-67

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| Query Match | 92.9% | Score 2293.4; | DB 6; | Length 2295; |
|----------------------------|-------|---------------|-------|-------------------|
| Best Local Similarity | 99.9% | Pred. No. 0; | | |
| Matches 2294; Conservative | 0; | Mismatches | 1; | Indels 0; Gaps 0; |

| | | | |
|----|-----|--|-----|
| Qy | 97 | ATGACCTCACCCCTCCAGCTCTCCAGTTTTTCAGTTTGAGACATTAGATGGAGGCCAAGAA | 156 |
| Db | 1 | ATGACCTCACCCCTCCAGCTCTCCAGTTTTTCAGTTTGAGACATTAGATGGAGGCCAAGAA | 60 |
| Qy | 157 | GATGGCTCTGAGGCGGACAGAGGAAAGCTGGATTTTGGGAGCGGCTGCCTCCCATGGAG | 216 |
| Db | 61 | GATGGCTCTGAGGCGGACAGAGGAAAGCTGGATTTTGGGAGCGGCTGCCTCCCATGGAG | 120 |
| Qy | 217 | TCACAGTTTCAGGGCGAGGACCGAANAATCGCCCCCTCAGATAAGAGTCMAACTCACTAC | 276 |
| Db | 121 | TCACAGTTTCAGGGCGAGGACCGAANAATCGCCCCCTCAGATAAGAGTCMAACTCACTAC | 180 |
| Qy | 277 | CGAAAGGGAAACAGGTGCCAGTCAGCCGGATCCAAACCGATTTGACCCGAGATCGGCTCTTC | 336 |
| Db | 181 | CGAAAGGGAAACAGGTGCCAGTCAGCCGGATCCAAACCGATTTGACCCGAGATCGGCTCTTC | 240 |
| Qy | 337 | AATCGCGTCTCCCGGGGTGTCCCGAGGATCTGGCTGGACTTCACAGAGTACTCTGAGCAAG | 396 |
| Db | 241 | AATCGCGTCTCCCGGGGTGTCCCGAGGATCTGGCTGGACTTCACAGAGTACTCTGAGCAAG | 300 |
| Qy | 397 | ACCAAGAGTACTTCAACCGACTCGGAATACACAGAGGGCTCCACAGGTAAAGACGTGCTG | 456 |
| Db | 301 | ACCAAGAGTACTTCAACCGACTCGGAATACACAGAGGGCTCCACAGGTAAAGACGTGCTG | 360 |

;; PRIOR APPLICATION NUMBER: US 09/439,165
;; PRIOR FILING DATE: 1999-11-12
;; PRIOR APPLICATION NUMBER: US 09/421,134
;; PRIOR FILING DATE: 1999-10-19
;; PRIOR APPLICATION NUMBER: US 09/258,633
;; PRIOR FILING DATE: 1999-02-26
;; PRIOR APPLICATION NUMBER: US 60/114,078
;; PRIOR FILING DATE: 1998-12-28
;; PRIOR APPLICATION NUMBER: US 60/108,322
;; PRIOR FILING DATE: 1998-11-13
;; NUMBER OF SEQ ID NOS: 23
;; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 6
; LENGTH: 2292
; TYPE: DNA
; ORGANISM: Homo Sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)...(2292)
US-11-013-090-6

Query Match 92.8%; Score 2292; DB 10; Length 2292;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 2292; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 97 ATGACCTCACCTCCAGCTCTCCAGTTTTCAGTTTGGAGACATTTAGATGGAGGCCAAGAA 156
Db 1 ATGACCTCACCTCCAGCTCTCCAGTTTTCAGTTTGGAGACATTTAGATGGAGGCCAAGAA 60

Qy 157 GATGGCTCTGAGGGCGACAGAGAAAGCTGATTTTGGAGCGGGCTGCCCTCCATGGAG 216
Db 61 GATGGCTCTGAGGGCGACAGAGAAAGCTGATTTTGGAGCGGGCTGCCCTCCATGGAG 120

Qy 217 TCACAGTTCCAGGGCGAGGCCGGAATTCGCCCTCAGATAAGTCAACCTCAACTAC 276
Db 121 TCACAGTTCCAGGGCGAGGCCGGAATTCGCCCTCAGATAAGTCAACCTCAACTAC 180

Qy 277 CGAAGGGGAAACAGGTGCGAGTCAGCCGGATCCAAACCGATTTGACCGAGATCGGCTCTTC 336
Db 181 CGAAGGGGAAACAGGTGCGAGTCAGCCGGATCCAAACCGATTTGACCGAGATCGGCTCTTC 240

Qy 337 AATCGGCTCTCCGGGGTGTCCCGAGATCTGGCTGGAATTCAGAGTACCTGAGCAAG 396
Db 241 AATCGGCTCTCCGGGGTGTCCCGAGATCTGGCTGGAATTCAGAGTACCTGAGCAAG 300

Qy 397 ACCAGCAAGTACCTCACCGACTCGGAATACACAGAGGGCTCCACAGTAAGACGTGCTG 456
Db 301 ACCAGCAAGTACCTCACCGACTCGGAATACACAGAGGGCTCCACAGTAAGACGTGCTG 360

Qy 457 ATGAAGCTGTGCTGAACCTTAAGGACGGAGTCAATGCTGCAATTCCTGCCACTGCTGCAG 516
Db 361 ATGAAGCTGTGCTGAACCTTAAGGACGGAGTCAATGCTGCAATTCCTGCCACTGCTGCAG 420

Qy 517 ATCGACAGGACTCTGGGAATTCCTCAGCCCTGGTAAATGCCAGTGCACAGATGACTAT 576
Db 421 ATCGACAGGACTCTGGGAATTCCTCAGCCCTGGTAAATGCCAGTGCACAGATGACTAT 480

Qy 577 TACCGAGGCCACAGCGCTCTGCACATCGCCATTCGAGAAGAGGAGTCTGCAGTGTGAAG 636
Db 481 TACCGAGGCCACAGCGCTCTGCACATCGCCATTCGAGAAGAGGAGTCTGCAGTGTGAAG 540

Qy 637 CTCCTGGTGGAGATGGGGCCAAATGTGATGCGCCGGGCTCGCGCCGCTCTTCCAGAAAG 696
Db 541 CTCCTGGTGGAGATGGGGCCAAATGTGATGCGCCGGGCTCGCGCCGCTCTTCCAGAAAG 600

Qy 697 GGCCAAAGGACTCTGCTTTTATTCGGTGAAGTACCCCTCTCTTTGGCGGCTTGACCAAG 756
Db 601 GGCCAAAGGACTCTGCTTTTATTCGGTGAAGTACCCCTCTCTTTGGCGGCTTGACCAAG 660

Qy 757 CAGTGGAGTGTGAAGTACCTCTCGAGAAACCCACACAGCCCGCCAGCTGCGAGGCC 816
Db 661 CAGTGGAGTGTGAAGTACCTCTCGAGAAACCCACACAGCCCGCCAGCTGCGAGGCC 720

Qy 817 ACTGACTCCAGGGCAACACAGTCTCTGATCCCTAGTGTATGATCTCGGACAACTCAGCT 876
Db 721 ACTGACTCCAGGGCAACACAGTCTCTGATCCCTAGTGTATGATCTCGGACAACTCAGCT 780

Qy 877 GAGAAATTTGACATGCTGTGAACAGCATGTATGATGGGCTCTCCAAAGTGGGGCCGCTC 936
Db 781 GAGAAATTTGACATGCTGTGAACAGCATGTATGATGGGCTCTCCAAAGTGGGGCCGCTC 840

Qy 937 TGCCCTACCGTGCAGCTTGGAGACATCCGAAACCTCGAGGATCTCAAGCTCTGAGCTG 996
Db 841 TGCCCTACCGTGCAGCTTGGAGACATCCGAAACCTCGAGGATCTCAAGCTCTGAGCTG 900

Qy 997 GCCGCCAAGGAGGGCAAGATCGAGATTTTCAGGCACATCTCTGACGCGGAGTTTTCAGGA 1056
Db 901 GCCGCCAAGGAGGGCAAGATCGAGATTTTCAGGCACATCTCTGACGCGGAGTTTTCAGGA 960

Qy 1057 CTGAGCCACCTTTTCCGAAAGTTTCAACGAGTGTGTGCTATGAGGCTGTCCGGGTGTGCTG 1116
Db 961 CTGAGCCACCTTTTCCGAAAGTTTCAACGAGTGTGTGCTATGAGGCTGTCCGGGTGTGCTG 1020

Qy 1117 TATGACCTGGCTTCTGTGGACAGCTGTGAGGAGAACTCAGTGTCTGGAGATCATTTGCCCTT 1176
Db 1021 TATGACCTGGCTTCTGTGGACAGCTGTGAGGAGAACTCAGTGTCTGGAGATCATTTGCCCTT 1080

Qy 1177 CATTCAGAGGCCCGCACCGACACCGAATGTCTCTTTTGGAGCCCTCGAAACAAACTGCTG 1236
Db 1081 CATTCAGAGGCCCGCACCGACACCGAATGTCTCTTTTGGAGCCCTCGAAACAAACTGCTG 1140

Qy 1237 CAGCGAAATGGGATCTGCTCATCCCCCAAGTTCTTCTTAAACTTCTGTGTAACTCTGATC 1296
Db 1141 CAGCGAAATGGGATCTGCTCATCCCCCAAGTTCTTCTTAAACTTCTGTGTAACTCTGATC 1200

Qy 1297 TACATGTTCATCTTCACGGCTGTGCTCATCATCAGCTACCTCTGAGAGACAGGCCGCC 1356
Db 1201 TACATGTTCATCTTCACGGCTGTGCTCATCATCAGCTACCTCTGAGAGAGAGGCCGCC 1260

Qy 1357 CCTCACCTGAAAGCGAGGTTGGAACTCCTATGCTGTGACGGGCCACATCTTATCTCTG 1416
Db 1261 CCTCACCTGAAAGCGAGGTTGGAACTCCTATGCTGTGACGGGCCACATCTTATCTCTG 1320

Qy 1417 CTAGGGGGATCTACCTCTCTGTTGGCCAGCTGTGTTACTTCTGGCGGCGCACGTGTTCT 1476
Db 1321 CTAGGGGGATCTACCTCTCTGTTGGCCAGCTGTGTTACTTCTGGCGGCGCACGTGTTCT 1380

Qy 1477 ATCTGATCTCGTTTCATAGACAGTACTTGAATCTCTCTCTCTGTTTCCAGGCCCTGCTC 1536
Db 1381 ATCTGATCTCGTTTCATAGACAGTACTTGAATCTCTCTCTCTGTTTCCAGGCCCTGCTC 1440

Qy 1537 ACAGTGTGTCTCCAGGTTGCTGTTTCTGGCCATCGAGTGTACTTCCCTCTCTCTCTGTTG 1596
Db 1441 ACAGTGTGTCTCCAGGTTGCTGTTTCTGGCCATCGAGTGTACTTCCCTCTCTCTCTGTTG 1500

Qy 1597 TCTGCGCTGTGTCTGGCTGGCTGAACTCTCTTTATCTATATACAGTGGCTTCCAGCACACA 1656
Db 1501 TCTGCGCTGTGTCTGGCTGGCTGAACTCTCTTTACTATATACAGTGGCTTCCAGCACACA 1560

Qy 1657 GGCATCTACAGTGTCTATGATCCAGAGGTCATCTCTGGGGACCTGCTGCGGCTCTCTCTG 1716
Db 1561 GGCATCTACAGTGTCTATGATCCAGAGGTCATCTCTGGGGACCTGCTGCGGCTCTCTCTG 1620

Qy 1717 ATCTACTTACTCTTCTTTTGGCTGTGCTGTAGCCCTGTGAGCTGTGAGCAGGAGGCT 1776
Db 1621 ATCTACTTACTCTTCTTTTGGCTGTGCTGTAGCCCTGTGAGCTGTGAGCAGGAGGCT 1680

Qy 1777 TGCGGCCCGGAAAGCTCTTACAGGCCCAATGCCACAGAGTCAAGTGCAGGCCCATGAGGAGA 1836
Db 1681 TGCGGCCCGGAAAGCTCTTACAGGCCCAATGCCACAGAGTCAAGTGCAGGCCCATGAGGAGA 1740

Qy 1837 CAGGAGGACGAGGGCAACGGGGCCAGTACAGGGGTATCTCTGGAAGCTCTCTTGGAGCTC 1896
Db 1741 CAGGAGGACGAGGGCAACGGGGCCAGTACAGGGGTATCTCTGGAAGCTCTCTTGGAGCTC 1800

Qy 1897 TTCAATTCACCATCGGCAGCTGGCCCTTCCAGGAGCAGCTGCACTTCCGCGGC 1956

| | | | | |
|----|--|------|--|------|
| | | 1801 | TTCAAATTCCACCATCGGATGGCGAGTGGCCCTTCAGGAGAGCTGCATCTCCGCGGC | 1860 |
| Db | | | | |
| Qy | | 1957 | ATGCTGCTGCTGCTGCTGGCCCTAGCTGCTGTCTCACCTACATCCTGCTGCTCAACATG | 2016 |
| Db | | | | |
| Qy | | 2017 | CTCATCGCCCTCATGAGCGAGACCGTCAACAGTGTCCCACTGACAGCTGGAGCATCTGG | 2076 |
| Db | | | | |
| Qy | | 2077 | AAGCTGCAGAAAGCCATCTCTGCTCTGGAGATGAGAAATGGCTATTGGTGGTGCAGGAAG | 2136 |
| Db | | | | |
| Qy | | 2137 | AAGCAGCGGGCAGGTGTGATGCTCACCGTTGGCACTAAGCCAGATGCGAGCCCGGATGAG | 2196 |
| Db | | | | |
| Qy | | 2197 | CGCTGGTGTCTTACGGTGGAGAGAGGTGAACCTGGGCTTCATGGGAGCAGACGCTGCCTACG | 2256 |
| Db | | | | |
| Qy | | 2257 | CTGTGTGAGGACCGTCAAGGGCAGGTGTCCCTCGAACTCTCGAGAACCCCTGTCTCGGCT | 2316 |
| Db | | | | |
| Qy | | 2317 | TCCCTCTCCAGGAGGATGAGGATGTGTCCTCTGAGGAAACTATGTGCCGCTCCAGCTC | 2376 |
| Db | | | | |
| Qy | | 2377 | CTCCAGTCCCAAC | 2388 |
| Db | | | | |
| Qy | | 2389 | CTCCAGTCCCAAC | 2390 |
| Db | | | | |

| | |
|--|--|
| RESULT 10 | |
| US-10-342-844-69 Y. | |
| ; Sequence 69, Application US/10342844 | |
| ; Publication No. US20040009537A1 | |
| ; GENERAL INFORMATION: | |
| ; APPLICANT: Roos, Jack | |
| ; APPLICANT: Stauderman, Kenneth | |
| ; APPLICANT: Velicelebi, G'n l | |
| ; TITLE OF INVENTION: METHODS OF MODULATING AND IDENTIFYING | |
| ; TITLE OF INVENTION: AGENTS THAT MODULATE INTRACELLULAR CALCIUM | |
| ; FILE REFERENCE: 37481-3307 | |
| ; CURRENT APPLICATION NUMBER: US/10/342,844 | |
| ; CURRENT FILING DATE: 2003-01-13 | |
| ; PRIOR APPLICATION NUMBER: US 60/347,459 | |
| ; PRIOR FILING DATE: 2002-01-11 | |
| ; PRIOR APPLICATION NUMBER: US 60/401,171 | |
| ; PRIOR FILING DATE: 2002-08-02 | |
| ; PRIOR APPLICATION NUMBER: US 60/405,678 | |
| ; PRIOR FILING DATE: 2002-08-20 | |
| ; NUMBER OF SEQ ID NOS: 115 | |
| ; SOFTWARE: Fast-SEQ for Windows Version 4.0 | |
| ; SEQ ID NO 69 | |
| ; LENGTH: 2295 | |
| ; TYPE: DNA | |
| ; ORGANISM: Homo sapiens | |
| ; FEATURE: | |
| ; NAME/KEY: CDS | |
| ; LOCATION: (1)...(2292) | |
| ; FEATURE: | |
| ; NAME/KEY: misc_feature | |
| ; LOCATION: 1995, 2000, 2118 | |
| ; OTHER INFORMATION: n = A, T, C or G | |
| ; FEATURE: | |
| ; NAME/KEY: VARIANT | |
| ; LOCATION: 667 | |
| ; OTHER INFORMATION: Xaa = Any Amino Acid | |
| ; PUBLIC INFORMATION: | |

Db 961 CTAGCCACCTTTCCGAAAGTTCCAGAGTGGTCTATGGCCCTGTCCGGGTGCGCTG 1020
QY 1117 TATGACCTGGCTTCTGTGGACAGCTGTGAGGAACTCAGTGTCTGGAGATCATTCGCCCTT 1176
Db 1021 TATGACCTGGCTTCTGTGGACAGCTGTGAGGAACTCAGTGTCTGGAGATCATTCGCCCTT 1080
QY 1177 CATTCGAAGAGCCCGCACCGACACCGAATGFTGTTTTGGAGCCCTCGAACAACCTGCTG 1236
Db 1081 CATTCGAAGAGCCCGCACCGACACCGAATGFTGTTTTGGAGCCCTCGAACAACCTGCTG 1140
QY 1237 CAGCGAATGGATCTGCTCATCCCAAGTCTCTTAAACTTCTGTGTAACTGATC 1296
Db 1141 CAGCGAATGGATCTGCTCATCCCAAGTCTCTTAAACTTCTGTGTAACTGATC 1200
QY 1297 TACATGTTTCATCTTCCACCGCTGTTGCCCTACCATCAGCCTACCTGAAAGAGCAGCGCC 1356
Db 1201 TACATGTTTCATCTTCCACCGCTGTTGCCCTACCATCAGCCTACCTGAAAGAGCAGCGCC 1260
QY 1357 CCTCACCTGAAAGCGAGTTGGAACTCCATGCTGTGACGGGCCACATCTTATCCTG 1416
Db 1261 CCTCACCTGAAAGCGAGTTGGAACTCCATGCTGTGACGGGCCACATCTTATCCTG 1320
QY 1417 CTAGGGGATCTACCTCTGTGGGCCAGCTGTGTACTTCTGGCGGCCACAGTGTTC 1476
Db 1321 CTAGGGGATCTACCTCTGTGGGCCAAGTGTGTACTTCTGGCGGCCACAGTGTTC 1380
QY 1477 ATCTGGATCTGTTTCATAGACAGCTACTTGAATCTCTCTCTGTTCCAGGCCCTGTC 1536
Db 1381 ATCTGGATCTGTTTCATAGACAGCTACTTGAATCTCTCTCTGTTCCAGGCCCTGTC 1440
QY 1537 ACAGTGTGTCCTGCTGCTGTTTCTGCGCCATCGAGTGTGTACTTCTGCCCCCTGTTGTG 1596
Db 1441 ACAGTGTGTCCTGCTGCTGTTTCTGCTGTCATCGAGTGTGTACTTCTGCCCCCTGTTGTG 1500
QY 1597 TCTGGCTGGTCTGGGCTGCTGAACTCTGCTTTACTATACAGTGTGGCTTCCAGACACA 1656
Db 1501 TCTGGCTGGTCTGGGCTGCTGAACTCTGCTTTACTATACAGTGTGGCTTCCAGACACA 1560
QY 1657 GGCATCTACAGTGTATGATCCAGAGGTATCTGCGGACCTGCTGCGGACCTGCTCTCTG 1716
Db 1561 GGCATCTACAGTGTATGATCCAGAGGTATCTGCGGACCTGCTGCGGACCTGCTCTCTG 1620
QY 1717 ATCTACTTACTTCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1776
Db 1621 ATCTACTTACTTCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1680
QY 1777 TGGCGCCCGAAGCTCTCTACAGGCCCAATGCCACAGAGTCAAGTGCAGGCCCATGGAGGA 1836
Db 1681 TGGCGCCCGAAGCTCTCTACAGGCCCAATGCCACAGAGTCAAGTGCAGGCCCATGGAGGA 1740
QY 1837 CAGTGGACGAGGGCAACGGGGCCAGTACAGGGGTATCTTGGAGGCTCTCTGGAGCTC 1896
Db 1741 CAGGAGACGAGGGCAACGGGGCCAGTACAGGGGTATCTTGGAGGCTCTCTGGAGCTC 1800
QY 1897 TTCAAATTCACCATCGGCATGGGGAGCTGGCCCTTCCAGGAGCAGCTGCACTTCCGGCGC 1956
Db 1801 TTCAAATTCACCATCGGCATGGGGAGCTGGCCCTTCCAGGAGCAGCTGCACTTCCGGCGC 1860
QY 1957 ATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 2016
Db 1861 ATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1920
QY 2017 CTATCCGCTCATGAGCGAGCCTCAACAGTGTGCGCACTGACAGTGTGAGCATCTGG 2076
Db 1921 CTATCCGCTCATGAGCGAGCCTCAACAGTGTGCGCACTGACAGTGTGAGCATCTGG 1980
QY 2077 AAGCTGAGAAAGCATCTCTGCTGAGATGAGAAATGGCTATTGGTGTGAGGAAG 2136
Db 1981 AAGCTGAGAAAGCATCTGCTGAGATGAGAAATGGCTATTGGTGTGAGGAAG 2040
QY 2137 AAGCAGGGGAGGTGTGATGCTGACCGTTGGCACTAAGCCAGATGCGACCCCGATGAG 2196

Db 2041 AAGCAGCGGGCAGGTGTGTGATGCTGACCGTTGGCACTAAGCCAGATGCGAGCCCCGATGAG 2100
QY 2197 CGCTGGTGTCTTTCAGGGTGGAGGTGAACCTGGGCTTTCATGGAGCAGACGCTGCTAGC 2256
Db 2101 CGCTGGTGTCTTTCAGGGTGGAGGTGAACCTGGGCTTTCATGGAGCAGACGCTGCTAGC 2160
QY 2257 CTGTGTGAGGACCCGTCAGGGCAGGTGTCTCCCTCGAACTCTCGAGAAACCTGTCTCGGCT 2316
Db 2161 CTGTGTGAGGACCCGTCAGGGCAGGTGTCTCCCTCGAACTCTCGAGAAACCTGTCTCGGCT 2220
QY 2317 TCCCTCTCCCAAGGAGATGAGGATGGTGTCTCTGAGGAAACTATGTGCCCCGTGAGCTC 2376
Db 2221 TCCCTCTCCCAAGGAGATGAGGATGGTGTCTCTGAGGAAACTATGTGCCCCGTGAGCTC 2280
QY 2377 CTCAGTCCCAACTGA 2391
Db 2281 CTCAGTCCCAACTGA 2295

RESULT 11
US-09-809-391-191
; Sequence 191, Application US/09809391
; Publication No. US20030049618A1
; GENERAL INFORMATION:
; APPLICANT: Ruben et al.
; TITLE OF INVENTION: 186 Human Secreted proteins
; CURRENT APPLICATION NUMBER: US/09/809,391
; CURRENT FILING DATE: 2001-03-16
; Prior application data removed - consult PALM or file wrapper
; NUMBER OF SEQ ID NOS: 761
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 191
; LENGTH: 2779
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: SITE
; LOCATION: (318)
; OTHER INFORMATION: n equals a,t,g, or c
; NAME/KEY: SITE
; LOCATION: (2003)
; OTHER INFORMATION: n equals a,t,g, or c
; NAME/KEY: SITE
; LOCATION: (2004)
; OTHER INFORMATION: n equals a,t,g, or c
US-09-809-391-191

Query Match 91.5%; Score 2259.2; DB 3; Length 2779;
Best Local Similarity 96.5%; Pred. No. 0;
Matches 2365; Conservative 10; Mismatches 5; Indels 70; Gaps 4;
QY 20 TGGAGGAAAGACAGGACCTTTGACATCTCCATCTGCACAGAGTCTCTGGTGGACCGAGC 79
Db 319 TGGAGGAAAGACAGGACCTTTGACATCTCCATCTGCACAGAGTCTCTGGTGGACCGAGC 378
QY 80 AGCTCTCTCTCTTCTAGGATGACCTCCCTCCAGCTCTCCAGTCTTTCAGGTTGGAGACAT 139
Db 379 AGCTCTCTCTCTTCTAGGATGACCTCCCTCCAGCTCTCCAGTCTTTCAGGTTGGAGACAT 438
QY 140 TAGATGAGGCGCAAGAGATGGCTCTGAGCGGACAGAGAAAGCTGGATTTTGGGAGCG 199
Db 439 TAGATGAGGCGCAAGAGATGGCTCTGAGCGGACAGAGAAAGCTGGATTTTGGGAGCG 498
QY 200 GGCTGCTCTCCATGGAGTCAAGTTCAGGGCGAGGACCGGAAATTCGCCCTCCAGATAA 259
Db 499 GGCTGCTCTCCATGGAGTCAAGTTCAGGGCGAGGACCGGAAATTCGCCCTCCAGATAA 558
QY 260 GAGTCAACCTCACTACCGAAGGAGACAGTGTCCAGTCAAGCCGGATCCAAACCGATTG 319
Db 559 GAGTCAACCTCACTACCGAAGGAGAACAGTGTCCAGTGTCCAGTGTCCAAACCGATTG 618
QY 320 ACCGAGATCGGCTCTTCAATGCGGTCTCTCCCGGGGTGTCCCGGAGATCTGGCTGGAATTC 379

; Sequence 191, Application US/09882171
 ; Publication No. US2003017585A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Ruben et al.
 ; TITLE OF INVENTION: 186 Human Secreted proteins
 ; FILE REFERENCE: P2002P2
 ; CURRENT APPLICATION NUMBER: US/09/882,171
 ; CURRENT FILING DATE: 2001-06-18
 ; PRIOR APPLICATION NUMBER: 09/809,391
 ; PRIOR FILING DATE: 2001-03-16
 ; PRIOR APPLICATION NUMBER: 09/149,476
 ; PRIOR FILING DATE: 1998-09-08
 ; PRIOR APPLICATION NUMBER: PCT/US98/04493
 ; PRIOR FILING DATE: 1998-03-06
 ; PRIOR APPLICATION NUMBER: 60/040,162
 ; PRIOR FILING DATE: 1997-03-07
 ; PRIOR APPLICATION NUMBER: 60/040,333
 ; PRIOR FILING DATE: 1997-03-07
 ; PRIOR APPLICATION NUMBER: 60/038,621
 ; PRIOR FILING DATE: 1997-03-07
 ; PRIOR APPLICATION NUMBER: 60/040,626
 ; PRIOR FILING DATE: 1997-03-07
 ; PRIOR APPLICATION NUMBER: 60/040,334
 ; PRIOR FILING DATE: 1997-03-07
 ; PRIOR APPLICATION NUMBER: 60/040,336
 ; PRIOR FILING DATE: 1997-03-07
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 ; PRIOR FILING DATE: 1997-05-23
 ; PRIOR APPLICATION NUMBER: 60/047,492
 ; PRIOR FILING DATE: 1997-05-23
 ; PRIOR APPLICATION NUMBER: 60/047,598
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 ; PRIOR APPLICATION NUMBER: 60/047,632
 ; PRIOR FILING DATE: 1997-05-23
 ; PRIOR APPLICATION NUMBER: 60/047,601
 ; PRIOR FILING DATE: 1997-05-23
 ; PRIOR APPLICATION NUMBER: 60/043,580

; PRIOR FILING DATE: 1997-04-11
 ; PRIOR APPLICATION NUMBER: 60/043,568
 ; PRIOR FILING DATE: 1997-04-11
 ; PRIOR APPLICATION NUMBER: 60/043,314
 ; PRIOR FILING DATE: 1997-04-11
 ; PRIOR APPLICATION NUMBER: 60/043,569
 ; PRIOR FILING DATE: 1997-04-11
 ; PRIOR APPLICATION NUMBER: 60/043,311
 ; PRIOR FILING DATE: 1997-04-11
 ; PRIOR APPLICATION NUMBER: 60/043,671
 ; PRIOR FILING DATE: 1997-04-11
 ; PRIOR APPLICATION NUMBER: 60/043,674
 ; PRIOR FILING DATE: 1997-04-11
 ; PRIOR APPLICATION NUMBER: 60/043,669
 ; PRIOR FILING DATE: 1997-04-11
 ; PRIOR APPLICATION NUMBER: 60/043,312
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 ; PRIOR APPLICATION NUMBER: 60/043,313
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 ; PRIOR APPLICATION NUMBER: 60/043,315
 ; PRIOR FILING DATE: 1997-04-11
 ; PRIOR APPLICATION NUMBER: 60/048,974
 ; PRIOR FILING DATE: 1997-06-06
 ; PRIOR APPLICATION NUMBER: 60/056,886
 ; PRIOR FILING DATE: 1997-08-22
 ; PRIOR APPLICATION NUMBER: 60/056,877
 ; PRIOR FILING DATE: 1997-08-22
 ; PRIOR APPLICATION NUMBER: 60/056,889
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 ; PRIOR APPLICATION NUMBER: 60/056,893
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 ; PRIOR FILING DATE: 1997-08-22
 ; PRIOR APPLICATION NUMBER: 60/056,882
 ; PRIOR FILING DATE: 1997-08-22
 ; PRIOR APPLICATION NUMBER: 60/056,637
 ; PRIOR FILING DATE: 1997-08-22
 ; PRIOR APPLICATION NUMBER: 60/056,903
 ; PRIOR FILING DATE: 1997-08-22
 ; PRIOR APPLICATION NUMBER: 60/056,888
 ; PRIOR FILING DATE: 1997-08-22
 ; PRIOR APPLICATION NUMBER: 60/056,879
 ; PRIOR FILING DATE: 1997-08-22
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 ; PRIOR FILING DATE: 1997-08-22
 ; PRIOR APPLICATION NUMBER: 60/056,910
 ; PRIOR FILING DATE: 1997-08-22
 ; PRIOR APPLICATION NUMBER: 60/056,864
 ; PRIOR FILING DATE: 1997-08-22
 ; PRIOR APPLICATION NUMBER: 60/056,631
 ; PRIOR FILING DATE: 1997-08-22
 ; PRIOR APPLICATION NUMBER: 60/056,845
 ; PRIOR FILING DATE: 1997-08-22
 ; PRIOR APPLICATION NUMBER: 60/056,892
 ; PRIOR FILING DATE: 1997-08-22
 ; PRIOR APPLICATION NUMBER: 60/057,761
 ; PRIOR FILING DATE: 1997-08-22

[illegible]

| | | | |
|----|------|--|------|
| QY | 1340 | TGAAGAAGCAGCGCGCCCTCACCTTGAAAGCGAGGTGGAAACTCCATGCTGCTGACGG | 1399 |
| DB | 1637 | TGAAGAGCAGCGCGCCCTCACCTTGAAAGCGAGGTGGAAACTCCATGCTGCTGACGG | 1696 |
| QY | 1400 | GCCACATCCTTATCCTGCTAGGGGGGATCTACCTCCTCGTGGGCCAGCTGTGGTACTTCT | 1459 |
| DB | 1697 | GCCACATCCTTATCCTGCTAGGGGGGATCTACCTCCTCGTGGGCCAGCTGTGGTACTTCT | 1756 |
| QY | 1460 | GGCGGCGCACGTGTTATCTGGAATCTGTTTCATAGACAGCTACTTTGAAATCCTCTTCC | 1519 |
| DB | 1757 | GGCGGCGCACGTGTTATCTGGAATCTGTTTCATAGACAGCTACTTTGAAATCCTCTTCC | 1816 |
| QY | 1520 | TGTTCCAGCGCCCTGCTCACAGTGTGTCCCAAGTGTGTGTTTCCCTGSCCATCGAGTGT | 1579 |
| DB | 1817 | TGTTCCAGCGCCCTGCTCACAGTGTGTCCCAAGTGTGTGTTTCCCTGSCCATCGAGTGT | 1876 |
| QY | 1580 | ACCTGCCCTCTTGTGTCTGCGTGTGTGGCTGGCTGAACTGCTTTACTATACAC | 1639 |
| DB | 1877 | ACCTGCCCTCTTGTGTCTGCGTGTGTGGCTGGCTGAACTGCTTTACTATACAC | 1936 |
| QY | 1640 | GTGGCTTCCAGCACACAGGCATCTACAGTGTTCATGATCAGAGGTTCATCTGGGGACC | 1699 |
| DB | 1937 | GTGGCTTCCAGCACACAGGCATCTACAGTGTTCATGATCAGAGGTTCATCTGGGGACC | 1978 |
| QY | 1700 | TGCTGGCGCTTCCTTCTGATCTACTTAGTCTTCTTCTTTCGCTTTCGCTGTAGCCCTGTGA | 1759 |
| DB | 1979 | -----AGCCCTGTGTGA | 1989 |
| QY | 1760 | GCCTGAGCCAGAGGCTTGGCGCCCCGAAGCTCCTACAGGCCCAATGCCACAGAGTCTAG | 1819 |
| DB | 1990 | GCCTGAGCCAGGA-NNTTGGCGCCCCGAAGCTCCTACAGGCCCAATGCCACAGAGTCTAG | 2048 |
| QY | 1820 | TGCAGCCCATGAGGGACAGAGGACAGAGGGCAACGGGGGCCAGTACAGGGGTATCTGTG | 1879 |
| DB | 2049 | TGCAGCCCATGAGGGACAGAGGACAGAGGGCAACGGGGGCCAGTACAGGGGTATCTGTG | 2108 |
| QY | 1880 | AAGCCTCTCTGGAGCTCTTCAAAATTCAACATCGSCATGSGCAGCTGGCCCTCCAGGAGC | 1939 |
| DB | 2109 | AAGCCTCTCTGGAGCTCTTCAAAATTCAACATCGSCATGSGCAGCTGGCCCTCCAGGAGC | 2168 |
| QY | 1940 | AGCTGCATTTCCGGGCATGATGCTGCTGCTGTGCTGGCTACGTGCTGCTCACCTTACA | 1999 |
| DB | 2169 | AGCTGCATTTCCGGGCATGATGCTGCTGCTGTGCTGGCTACGTGCTGCTCACCTTACA | 2228 |
| QY | 2000 | TCCTGCTGCTCAACATGCTCATCGCCCTCATAGAGCGAGACCGTCAACAGTGTGCGCACTG | 2059 |
| DB | 2229 | TCCTGCTGCTCAACATGCTCATCGCCCTCATAGAGCGAGACCGTCAACAGTGTGCGCACTG | 2288 |
| QY | 2060 | ACAGCTGGAGCATCTCGAAGCTGCAGAAAGCCATCTCTGTCTGGAGATGGAGAAATGGCT | 2119 |
| DB | 2289 | ACAGCTGGAGCATCTCGAAGCTGCAGAAAGCCATCTCTGTCTGGAGATGGAGAAATGGCT | 2348 |
| QY | 2120 | ATTGGTGGTGCAAGAAAGCAGCGGCAGAGTGTGATGTGACCGTTGGCACTTAAGCCAG | 2179 |
| DB | 2349 | ATTGGTGGTGCAAGAAAGCAGCGGCAGAGTGTGATGTGATGTGACCGTTGGCACTTAAGCCAG | 2408 |
| QY | 2180 | ATGCGACCCGGATGAGCGCTGTGTGCTTTCAGGGTGGAGGAGTGAACCTGGGCTTCATGGG | 2239 |
| DB | 2409 | ATGCGACCCGGATGAGCGCTGTGTGCTTTCAGGGTGGAGGAGTGAACCTGGGCTTCATGGG | 2468 |
| QY | 2240 | AGCAGACGCTGACCTTACGCTGTGTGAGGACCCGCTCAGGGGACAGTGTCCCTCGAACCTCTCG | 2299 |
| DB | 2469 | AGCAGACGCTGACCTTACGCTGTGTGAGGACCCGCTCAGGGGACAGTGTCCCTCGAACCTCTCG | 2528 |
| QY | 2300 | AGAACTCTGTCTGGCTTCCCTCCCAAGGAGATGAGGATGGTGTGCTCTGAGGAAAACT | 2359 |
| DB | 2529 | AGAACTCTGTCTGGCTTCCCTCCCAAGGAGATGAGGATGGTGTGCTCTGAGGAAAACT | 2588 |
| QY | 2360 | ATGTGCCGCTCCAGCTCTTCAGTCCAACTGATGGGCCAGATGCGAGGAGGCCAGAGG | 2419 |
| DB | 2589 | ATGTGCCGCTCCAGCTCTTCAGTCCAACTGATGGGCCAGATGCGAGGAGGCCAGAGG | 2648 |

| | | | |
|--|------|--|------|
| Qy | 2420 | ACAGAGCAGAGATCTTTTCCAAACCAACATCTGCTGCTCTGGGTCCTCAGT | 2469 |
| | | | |
| Db | 2649 | ACAGAGCAGAGATCTTTTCCAAACCAACATCTGCTGCTCTGGGTCCTCAGT | 2698 |
| | | | |
| RESULT 13 | | | |
| US-10-164-861-191 | | | |
| ; Sequence 191, Application US/10164861 | | | |
| ; Publication No. US20030225248A1 | | | |
| ; GENERAL INFORMATION: | | | |
| ; APPLICANT: Rosen et al. | | | |
| ; TITLE OF INVENTION: 186 Human Secreted proteins | | | |
| ; FILE REFERENCE: PZ002P1 | | | |
| ; CURRENT APPLICATION NUMBER: US/10/164,861 | | | |
| ; CURRENT FILING DATE: 2002-06-10 | | | |
| ; PRIOR APPLICATION NUMBER: US/09/149,476 | | | |
| ; PRIOR FILING DATE: 1998-09-08 | | | |
| ; PRIOR APPLICATION NUMBER: PCT/US98/04493 | | | |
| ; PRIOR FILING DATE: 1998-03-06 | | | |
| ; NUMBER OF SEQ ID NOS: 757 | | | |
| ; SOFTWARE: Patentin Ver. 2.0 | | | |
| ; SEQ ID NO 191 | | | |
| ; LENGTH: 2779 | | | |
| ; TYPE: DNA | | | |
| ; ORGANISM: Homo sapiens | | | |
| ; FEATURE: | | | |
| ; NAME/KEY: SITE | | | |
| ; LOCATION: (318) | | | |
| ; OTHER INFORMATION: n equals a,t,g, or c | | | |
| ; FEATURE: | | | |
| ; NAME/KEY: SITE | | | |
| ; LOCATION: (2003) | | | |
| ; OTHER INFORMATION: n equals a,t,g, or c | | | |
| ; FEATURE: | | | |
| ; NAME/KEY: SITE | | | |
| ; LOCATION: (2004) | | | |
| ; OTHER INFORMATION: n equals a,t,g, or c | | | |
| US-10-164-861-191 | | | |
| Query Match 91.5%; Score 2259.2; DB 6; Length 2779; | | | |
| Best Local Similarity 96.5%; Pred. No. 0; | | | |
| Matches 2365; Conservative 10; Mismatches 5; Indels 70; Gaps 4 | | | |
| Qy | 20 | TGGAGGAAGACAGGACCCCTTGACATCTCCATCTGCACAGAGGTCCTGGCTGGACCGAGC | 79 |
| Db | 319 | TGGAGGAAGACAGGACCCCTTGACATCTCCATCTGCACAGAGGTCCTGGCTGGACCGAGC | 378 |
| Qy | 80 | AGCTCTCTCTTAGATGACCTCACCTCCAGCTCTCCAGTTTTCAGTTTGGAGACAT | 139 |
| Db | 379 | AGCTCTCTCTCTTAGATGACCTCACCTCCAGCTCTCCAGTTTTCAGTTTGGAGACAT | 438 |
| Qy | 140 | TAGATGAGGCGCAAGAAGATGGCTCTCAGGCGGACAGAGGAAGCTGGATTTTGGGAGCG | 199 |
| Db | 439 | TAGATGAGGCGCAAGAAGATGGCTCTCAGGCGGACAGAGGAAGCTGGATTTTGGGAGCG | 498 |
| Qy | 200 | GGCTGCCTCCCATGAGTTCACAGTTCCAGGGCGAGGACCGGAAATTCGCCCTCAGATAA | 259 |
| Db | 499 | GGCTGCCTCCCATGAGTTCACAGTTCCAGGGCGAGGACCGGAAATTCGCCCTCAGATAA | 558 |
| Qy | 260 | GAGTCAACCTCACTACCGAAAGGGAAACAGGTGCCAGTCAAGCCGGATCCAAACCGATTG | 319 |
| Db | 559 | GAGTCAACCTCACTACCGAAAGGGAAACAGGTGCCAGTCAAGCCGGATCCAAACCGATTG | 618 |
| Qy | 320 | ACCGAGATCGGCTCTTCAATCGGCTCCCGGGGTGCCCGAGGATCTGGCTGGACTTC | 379 |
| Db | 619 | ACCGAGATCGGCTCTTCAATCGGCTCCCGGGGTGCCCGAGGATCTGGCTGGACTTC | 678 |
| Qy | 380 | CAGAGTACCTGAGCAAGACAGCAAGTACCTCACCGACTCGGAATACACAGAGGCTCCA | 439 |
| Db | 679 | CAGAGTACCTGAGCAAGACAGCAAGTACCTCACCGACTCGGAATACACAGAGGCTCCA | 738 |
| Qy | 440 | CAGGTAAAGACGTGCTGATGAAGGCTGTGCTGAACCTTAAAGGACGGAGTCAATGCTGCA | 499 |
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| | | | | | | | | | |
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| ; NUMBER OF SEQ ID NOS: 761 | | | | | | | | | |
| ; SOFTWARE: PatentIn Ver. 2.0 | | | | | | | | | |
| ; SEQ ID NO 314 | | | | | | | | | |
| ; LENGTH: 2860 | | | | | | | | | |
| ; TYPE: DNA | | | | | | | | | |
| ; ORGANISM: Homo sapiens | | | | | | | | | |
| ; FEATURE: | | | | | | | | | |
| ; NAME/KEY: SITE | | | | | | | | | |
| ; LOCATION: (5) | | | | | | | | | |
| ; OTHER INFORMATION: n equals a,t,g, or c | | | | | | | | | |
| ; NAME/KEY: SITE | | | | | | | | | |
| ; LOCATION: (16) | | | | | | | | | |
| ; OTHER INFORMATION: n equals a,t,g, or c | | | | | | | | | |
| US-09-809-391-314 | | | | | | | | | |
| Query Match 83.5%; Score 2061.8; DB 3; Length 2860; | | | | | | | | | |
| Best Local Similarity 95.1%; Pred. No. 0; | | | | | | | | | |
| Matches 2364; Conservative 4; Mismatches 31; Indels 86; Gaps 20; | | | | | | | | | |
| QY | 3 | CGAGGCGCAGCGCAGCTGGGAGGAAGACAGGACCTTTGACATCTCCATCTGCACAGAGG | 62 | | | | | | |
| DB | 325 | CAACACCGACGCGCACTGGGAGGAAGACAGACGCCCTTGACATCTCCATCTGCACAGAGG | 384 | | | | | | |
| QY | 63 | TCCTGGCTGG-ACCGAGCAGCCTCTCTCTCTAGGATGACCTCACCTTCAGCTCTCCAG | 121 | | | | | | |
| DB | 385 | TCCTGGCTGGAAACCGAGCAGCCTCTCTCTCTAGGATGACCTCACCTTCAGCTCTCCAG | 444 | | | | | | |
| QY | 122 | TTTTTCAGTTGGAGACATATTAGATGGAGGCCAAGAAGATGGCTCTGAGSCGACAGAGAA | 181 | | | | | | |
| DB | 445 | TTTTTCAGTTGGAGACATATTAGATGGAGGCCAAGAAGATGGCTCTGAGSCGACAGAGAA | 504 | | | | | | |
| QY | 182 | AGCTGGATTTTGGAGCGGGCTGCTCCCATGAGTCACTTCAGGGCGAGGACCGGA | 241 | | | | | | |
| DB | 505 | AGCTGGATTTTGGAGCGGGCTGCTCCCATGAGTCACTTCAGGGCGAGGACCGGA | 564 | | | | | | |
| QY | 242 | AATTGCGCCC-TCAGATAAGAGTCAACCT-CAACTACCGAAAGGGAACAGTGCAGTCA | 299 | | | | | | |
| DB | 565 | AATTGCGCCCCTTCAGATAAGAGTCAACCTCCAACTACCGAAAGGGAACAGTGCAGTCA | 624 | | | | | | |
| QY | 300 | GCGGATCCAAACCGATTTGACCCAGATCGCTCTTCAAATGCGGTCTCCCGGGGTGTCCT | 359 | | | | | | |
| DB | 625 | GCGGATCCAAACCGATTTGACCCAGATCGCTCTTCAAATGCGGTCTCCCGGGGTGTCCT | 684 | | | | | | |
| QY | 360 | CGAGGATCTGGCTGGAATTCACAGAGTACCTGACGACAGACCAAGTACCTCACGACT- | 418 | | | | | | |
| DB | 685 | CGAGGATCTGGCTGGAATTCACAGAGTACCTGACGACAGACCAAGTACCTCACGACTT | 744 | | | | | | |
| QY | 419 | -CGGAATACACAGAGGCTCCACAGGTAAGACGTGCTGTGATGAAGGTGTGCTG-ACCT | 476 | | | | | | |
| DB | 745 | CGGAAATACACAGAGGCTCCACAGGTAAGACG-GCCTGATGAAGGTGTGCTGAACCT | 803 | | | | | | |
| QY | 477 | TAAGGACGAGTCAATGCCCTGCAATTCGCCACTCTGCAGATCCAGACGAGGACTCTGGCA | 536 | | | | | | |
| DB | 804 | TAAGGACGAGTCAATGCCCTGCAATTCGCCACTCTGCAGATCCAGACGAGGACTCTGGCA | 863 | | | | | | |
| QY | 537 | TCCTCAGCCCTGGTAAATGCCAGTGCACAGATGACTATTACCGAGGCCACACGCGCTCT | 596 | | | | | | |
| DB | 864 | TCCTCAGCCCTGGTAAATGCCAGTGCACAGATGACTATTACCGAGGCCACACGCGCTCT | 923 | | | | | | |
| QY | 597 | GCAATCCGCAATTAG-AAGAGGAGTCTGCAGTGTGTGAAGCTCCTCGTGGAGAAATGGG | 655 | | | | | | |
| DB | 924 | GCAATCCGCAATTAGAAAGAGGAGTCTGCAGTGTGTGAAGCTCCTCGTGGAGAAATGGG | 983 | | | | | | |
| QY | 656 | CCAATGTGATGCCCGGCTCGCGCGCTCTTCCAGAGGGCCAGGAGACTTGCCTTTT | 715 | | | | | | |
| DB | 984 | CCAATGTGATGCCCGGCTCTGCGGCGACTTCTTCCAGAGGGCCAGGAGACTTGCCTTTT | 1043 | | | | | | |
| QY | 716 | ATTTTCGGTGAAGTACCCCTCTCTTTGGCCGCTTGACCAAGCAGTGGGATGTGTGAAGCT | 775 | | | | | | |
| DB | 1044 | ATTTTCGGTGAAGTACCCCTCTCTTTGGCCGCTTGACCAAGCAGTGGGATGTGTGAAGCT | 1103 | | | | | | |
| QY | 776 | ACCTCTCGAGAAACCCACACAGCCGCCACGCTGCAGGCCACTGACTCCCGAGGCAACA | 835 | | | | | | |

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; PRIOR FILING DATE: 1997-08-22
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; PRIOR FILING DATE: 1997-04-11
; PRIOR APPLICATION NUMBER: 60/047,501
; PRIOR FILING DATE: 1997-05-23
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; PRIOR FILING DATE: 1997-04-11
; PRIOR APPLICATION NUMBER: 60/056,632

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; PRIOR FILING DATE: 1997-05-23
; PRIOR APPLICATION NUMBER: 60/043,670
; PRIOR FILING DATE: 1997-04-11
; PRIOR APPLICATION NUMBER: 60/056,632

Query Match 83.5%; Score 2061.8; DB 3; Length 2860;
Best Local Similarity 95.1%; Pred. No. 0;
Matches 2364; Conservative 4; Mismatches 31; Indels 86; Gaps 20;

Qy 3 CGAGGCCGACGCGCAGCTGGGAGGAGACAGAGGACCCCTTGACATCTCCATCTGCACAGAGG 62
Db 325 CAACACCGACGCGCAGCTGGGAGGAGACAGAGGACCCCTTGACATCTCCATCTGCACAGAGG 384
Qy 63 TCCTGGCTGG-ACCGAGCAGCCTCTCTCTCTCTAGGATGACCTACCTCTCCAGCTTCCAG 121
Db 385 TCCTGGCTGGAAACCGAGCAGCCTCTCTCTCTAGGATGACCTACCTCTCCAGCTTCCAG 444
Qy 122 TTTTCAGGTTGGAGACATTAGATGGAGGCAAGAGATGGCTCTGAGGCGGACAGAGAA 181
Db 445 TTTTCAGGTTGGAGACATTAGATGGAGGCAAGAGATGGCTCTGAGGCGGACAGAGAA 504
Qy 182 AGCTGGATTTTGGAGCGGGCTGCTCCATGGAGTCAAGTTCAGAGGCGGAGACCGGA 241
Db 505 AGCTGGATTTTGGAGCGGGCTGCTCCATGGAGTCAAGTTCAGAGGCGGAGACCGGA 564
Qy 242 AATTGGCCCC-TCAGATAAGAGTCAACCT-CAATACCGAAAGGAAACAGGTGCCAGTCA 299
Db 565 AATTGGCCCCCTTCAGATAAGAGTCAACCTCAACTACCGAAAGGAAACAGGTGCCAGTCA 624
Qy 300 GCCGGATCCAAACCGATTTGACCGGATCGGCTCTTCAATCGGTCTCCCGGGGTGTC 359
Db 625 GCCGGATCCAAACCGATTTGACCGGATCGGCTCTTCAATCGGTCTCCCGGGGTGTC 684
Qy 360 CGAGGATCTGGCTGGACTTCCAGAGTACCTTGAGCAAGACAGCAAGTACCTCACCGACT- 418
Db 685 CGAGGATCTGGCTGGACTTCCAGAGTACCTTGAGCAAGACAGCAAGTACCTCACCGACTT 744
Qy 419 -CGGAATACACAGAGGCTCCACAGGTAAGACGTGCTGATGAAGGTGTGCTG-ACCT 476
Db 745 CGGAATACACAGAGGCTCCACAGGTAAGACG-GCCTGATGAAGGTGTGCTGTAACCT 803
Qy 477 TAAGGACGGAGTCAATGCTGCAATTCTGCCATCTGTCAGATCGACAGGAGACTTGGCAA 536
Db 804 TAAGGACGGGGTCAATGCTGCAATTCTGCCATCTGTCAGATCGACAGGAGACTTGGCAA 863
Qy 537 TCCTCAGCCCTCGTAAATGCCAGGTGCAAGATGACTATTACCGAGGCGCACAGCGGTCT 596
Db 864 TCCTCAGCCCTCGTAAATGCCAGGTGCAAGATGACTATTACCGAGGCGCACAGCGGTCT 923
Qy 597 GCACATCGCCATTGAG-AAGAGGAGTGTGAGTGTGTAAGAGCTCTTGGTGGAGAAATGGG 655
Db 924 GCACATCGCCATTGAGAAAGAGGAGTGTGAGTGTGTAAGAGCTCTTGGTGGAGAAATGGG 983

| | | | |
|----|------|---|------|
| Db | 527 | AAATTCCGCCCTTCAGATAAGAGTCAACCTCAACTACCGAAGGGAACAGGTGCAGTCAG | 586 |
| Qy | 301 | CCGGATCCAAACCGATTGTGACCGAGATCGGCTCTTCAATCGGCTCTCCCGGGGTGTCCCC | 360 |
| Db | 587 | CCGGATCCAAACCGATTGTGACCGAGATCGGCTCTTCAATCGGCTCTCCCGGGGTGTCCCC | 646 |
| Qy | 361 | GAGGATCTGGCTGACTTCCAGAGTACTCTGAGCAAGACCAAGCAAGTACTTCACCGACTCG | 420 |
| Db | 647 | GAGGATCTGGCTGACTTCCAGAGTACTCTGAGCAAGACCAAGCAAGTACTTCACCGACTCG | 706 |
| Qy | 421 | GAATACACAGAGGGCTCCACAGGTAAGACGTGCCTGTATGAAGGCTGTGTGAACCTTTAAG | 480 |
| Db | 707 | GAATACACAGAGGGCTCCACAGGTAAGACGTGCCTGTATGAAGGCTGTGTGAACCTTTAAG | 766 |
| Qy | 481 | GACGGATCAATGCTCCTCATTTCTGCCACTGCTGCAGATCGACAGGACTCTGTGCAATCCT | 540 |
| Db | 767 | GACGGGTCAATGCTCCTGATTTCTGCCACTGCTGCAGATCGACCGGACTCTGGCAATCCT | 826 |
| Qy | 541 | CAGCCCCCTGGTAAATGCCAGTGCACAGATGACTATTACCGAGGCCACAGCGCTCTGCAC | 600 |
| Db | 827 | CAGCCCCCTGGTAAATGCCAGTGCACAGATGACTATTACCGAGGCCACAGCGCTCTGCAC | 886 |
| Qy | 601 | ATCCCATTTGAGAAAGAGAGTCTGCAGTGTGTAAGTCTCTGTGTGAGAAATGGGGCAAT | 660 |
| Db | 887 | ATCCCATTTGAGAAAGAGAGTCTGCAGTGTGTAAGTCTCTGTGTGAGAAATGGGGCAAT | 946 |
| Qy | 661 | GTGCATGCCCGGGCTCTGGCGCGCTCTTCCAGNAGGGCCNAGGACTTGTCTTTATTTC | 720 |
| Db | 947 | GTGCATGCCCGGGCTCTGGCGCGCTCTTCCAGNAGGGCCNAGGACTTGTCTTTATTTC | 1006 |
| Qy | 721 | GGTGAGCTTACCCCTCTCTTTGGCCGCTTGACCAAGCAGTGGGATGTGTAAGCTACCTC | 780 |
| Db | 1007 | GGTGAGCTTACCCCTCTCTTTGGCCGCTTGACCAAGCAGTGGGATGTGTAAGCTACCTC | 1066 |
| Qy | 781 | CTGAGAAACCCACACCGCCGCTGCAGGCCACTGACTCCAGGGGCAACACAGTC | 840 |
| Db | 1067 | CTGAGAAACCCACACCGCCGCTGCAGGCCACTGACTCCAGGGGCAACACAGTC | 1126 |
| Qy | 841 | CTGATGCCCTTAGTGATGATCTCGGACAACTCAGCTGAGAACATTCAGCTGGTGACCAGC | 900 |
| Db | 1127 | CTGATGCCCTTAGTGATGATCTCGGACAACTCAGCTGAGAACATTCAGCTGGTGACCAGC | 1186 |
| Qy | 901 | ATGTATGATGGGCTCTCCAAAGCTGGGGCCGCTCTGCCCTACCGTGACGCTTGAGGAC | 960 |
| Db | 1187 | ATGTATGATGGGCTCTCCAAAGCTGGGGCCGCTCTGCCCTACCGTGACGCTTGAGGAC | 1246 |
| Qy | 961 | ATCCGCAACCTGCAGGATCTCACGCCCTCTGAAGCTGGCCGCGCCAGGAGGCAAGATCGAG | 1020 |
| Db | 1247 | ATCCGCAACCTGCAGGATCTCACGCCCTCTGAAGCTGGCCGCGCCAGGAGGCAAGATCGAG | 1306 |
| Qy | 1021 | ATTTTCAGGACATCTGCAGCGGGAGTTTTCAGGACTGAGCCACCTTTCCGNAAGTTC | 1080 |
| Db | 1307 | ATTTTCAGGACATCTGCAGCGGGAGTTTTCAGGACTGAGCCACCTTTCCGNAAGTTC | 1366 |
| Qy | 1081 | ACCGAGTGTCTATGSGCTGTCCGGGTGTCCGCTGTATGACCTGGCTCTGTGGACAGC | 1140 |
| Db | 1367 | ACCGAGTGTCTATGSGCTGTCCGGGTGTCCGCTGTATGACCTGGCTCTGTGGACAGC | 1426 |
| Qy | 1141 | TGTGAGGAGAACTCAGTGCTGGAGATCAATGSCCTTTCAITTCGAGAGCCCGCACCCGAC | 1200 |
| Db | 1427 | TGTGAGGAGAACTCAGTGCTGGAGATCAATGSCCTTTCAITTCGAGAGCCCGCACCCGAC | 1486 |
| Qy | 1201 | CGAATGTCGTTTTGGAGCCCTGAAACAACTGCTGCAGGGGAAATGGGATCTGCTCATC | 1260 |
| Db | 1487 | CGAATGTCGTTTTGGAGCCCTGAAACAACTGCTGCAGGGGAAATGGGATCTGCTCATC | 1546 |
| Qy | 1261 | CCCAAGTTCCTTTAAACCTTCCTGTGTAATCTGATCTACATGTTTCATCTTCACGCGTGT | 1320 |
| Db | 1547 | CCCAAGTTCCTTTAAACCTTCCTGTGTAATCTGATCTACATGTTTCATCTTCACGCGTGT | 1606 |
| Qy | 1321 | GCCTACCATCAGCCTTACCTCGAAGAAGCAGGCCGCCCTCCTACCTGGAAGGGAGTTGGA | 1380 |

| | | | |
|------|----|---|------|
| 1607 | Db | GCCTACCATCAGCCTACCTCTGAAGA-- --AGGCGCGCCCTCACTCGAAAGCGGAGGTTGGA | 1661 |
| 1381 | Qy | AACTCCATGCTGTGACGGGCCACATCCTTATCCTGTCTAGGGGGGATCTACCTCCTCGTG | 1440 |
| 1664 | Db | AACTCCATGCTGTGACGGGCCACATCCTTATCCTGTCTAGGGGGGATCTACCTCCTCGTG | 1723 |
| 1441 | Qy | GGCAGCTGTGTGTCTTCTGGCGGCGCCACGTTTCACTCTGTGATCTCTGTTCTATAGACAGC | 1500 |
| 1724 | Db | GGCAGCTGTGTGTCTTCTGGCGGCGCCACGTTTCACTCTGTGATCTCTGTTCTATAGACAGC | 1783 |
| 1501 | Qy | TACTTTGAAATCCTTCTTGTGTTCCAGGCCCTGCTCACAGTGTGTCTCCAGGTGCTGTGT | 1560 |
| 1784 | Db | TACTTTGAAATCCTTCTTGTGTTCCAGGCCCTGCTCACAGTGTGTCTCCAGGTGCTGTGT | 1843 |
| 1561 | Qy | TTCTGTGCCATCAGATGGTACCTGTGCCCTGCTTGTGTCTGTGCGTGTGTCTGGGCTGGCTG | 1620 |
| 1844 | Db | TTCTGTGCCATCAGATGGTACCTGTGCCCTGCTTGTGTCTGTGCGTGTGTCTGGGCTGGCTG | 1903 |
| 1621 | Qy | AACTGTCTTTATATACAGTGTGCTTCCAGCACACAGGCACTTACAGTGTCTGATATCCAG | 1680 |
| 1904 | Db | AACTGTCTTTATATACAGTGTGCTTCCAGCACACAGGCACTTACAGTGTCTGATATCCAG | 1963 |
| 1681 | Qy | AAGGTCACTCTGTGGGACCTGTGCGCTTCTTCTGATCTACTAGTCTTCTCTTTTCGGC | 1740 |
| 1964 | Db | AAGGTCACTCTGTGGGACCTGTGCGCTTCTTCTGATCTACTAGTCTTCTCTTTTCGGC | 2023 |
| 1741 | Qy | TTCGTGTAGCCTGTGTAGCCTGTGAGCAGGAGGCTTTGGCGCCCGCAAGCTCTCTACAGGC | 1800 |
| 2024 | Db | TTCGTGTAGCCTGTGTAGCCTGTGAGCAGGAGGCTTTGGCGCCCGCAAGCTCTCTACAGGC | 2083 |
| 1801 | Qy | CCCAATGCCACAGAGTCAGTGCAGGCCATGGAGGGGACGAGGAGACGAGGCAACGCGGCC | 1860 |
| 2084 | Db | CCCAATGCCACAGAGTCAGTGCAGGCCATGGAGGGGACGAGGAGACGAGGCAACGCGGCC | 2143 |
| 1861 | Qy | CAGTACAGGGGTATCTGTGAAGCCTCTTGTGAGCTCTTCAAATTCACCATCGGCATGGGC | 1920 |
| 2144 | Db | CAGTACAGGGGTATCTGTGAAGCCTCTTGTGAGCTCTTCAAATTCACCATCGGCATGGGC | 2203 |
| 1921 | Qy | GAGCTGCCCCTTCAGGAGCAGCTGCATCTCCGGCGGATGTGTGCTGTCTGTCTGTCTGCC | 1980 |
| 2204 | Db | GAGCTGCCCCTTCAGGAGCAGCTGCATCTCCGGCGGATGTGTGCTGTCTGTCTGTCTGCC | 2263 |
| 1981 | Qy | TACGTGTCTCACTACATCTCTGTCTCAACATGCTCATCGCCCTCATGAGCGAGACC | 2040 |
| 2264 | Db | TACGTGTCTCACTACATCTCTGTCTCAACATGCTCATCGCCCTCATGAGCGAGACC | 2323 |
| 2041 | Qy | GTCAAAGTGTGCGCATGTACAGCTGAGGATCTGTGAAGCTGTGAGGAAGCCATCTCTGTC | 2100 |
| 2324 | Db | GTCAAAGTGTGCGCATGTACAGCTGAGGATCTGTGAAGCTGTGAGGAAGCCATCTCTGTC | 2383 |
| 2101 | Qy | CTGGAGATGAGAAATGGCTATTGGTGTGTGAGGAAGAGCAGCGGGCAGGTGTGATCTGT | 2160 |
| 2384 | Db | CTGGAGATGAGAAATGGCTATTGGTGTGTGAGGAAGAGCAGCGGGCAGGTGTGATCTGT | 2443 |
| 2161 | Qy | ACCGTTGGCACTAAGCCAGATGGCAGCCCGGATGAGCGCTGTGTCTTCAAGGTGGAGGAG | 2220 |
| 2444 | Db | ACCGTTGGCACTAAGCCAGATGGCAGCCCGGATGAGCGCTGTGTCTTCAAGGTGGAGGAG | 2503 |
| 2221 | Qy | GTGAACTGGGCTTCATGGGAGCAGACGCTGCCCTACGCTGTGTGAGGACCCGCTCAGGGGCA | 2280 |
| 2504 | Db | GTGAACTGGGCTTCATGGGAGCAGACGCTGCCCTACGCTGTGTGAGGACCCGCTCAGGGGCA | 2563 |
| 2281 | Qy | GGTGTCCCTCGAACTCTCGAAGACCCCTGTCTTGTCTTCCCTCCCAAGGAGGATGAGGAT | 2340 |
| 2564 | Db | GGTGTCCCTCGAACTCTCGAAGACCCCTGTCTTGTCTTCCCTCCCAAGGAGGATGAGGAT | 2623 |
| 2341 | Qy | GGTGTCCCTCGAGGAAAATATGTGCCCGTCCAGCTCTCCAGTCCCACTGATGSCCCAGA | 2400 |
| 2624 | Db | GGTGTCCCTCGAGGAAAATATGTGCCCGTCCAGCTCTCCAGTCCCACTGATGSCCCAGA | 2683 |
| 2401 | Qy | TGCAGCAGGAGGCCAGAGGACAGAGCAGAGGATCTTTTCCAAACACACTCTGCTGTGCTCTGG | 2460 |
| 2684 | Db | TGCAGCAGGAGGCCAGAGGACAGAGCAGAGGATCTTTTCCAAACACACTCTGCTGTGCTCTGG | 2743 |

QY 2461 GGTCCCAAGT 2469
Db 2744 GGTCCCAAGT 2752

RESULT 2

US-10-137-316-1
; Sequence 1, Application US/10137316
; Patent No. 6906178
; GENERAL INFORMATION:
; APPLICANT: Young, Paul E.
; APPLICANT: Ruben, Steven M.
; TITLE OF INVENTION: Vanilloid Receptor-2
; FILE REFERENCE: 1488.1110002
; CURRENT APPLICATION NUMBER: US/10/137,316
; CURRENT FILING DATE: 2002-05-03
; PRIOR APPLICATION NUMBER: US 09/132,316
; PRIOR FILING DATE: 1998-08-11
; NUMBER OF SEQ ID NOS: 67
; SOFTWARE: PatentIn Ver. 3.1
; SEQ ID NO 1
; LENGTH: 2805 bp
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (5)...(2674)
US-10-137-316-1

Query Match 98.2%; Score 2424.6; DB 3; Length 2805;
Best Local Similarity 99.4%; Pred. No. 0;
Matches 2455; Conservative 0; Mismatches 9; Indels 5; Gaps 2;
QY 3 CGAGCGCGACCGCGAGCTGGAGGAGAGACAGGACCTTGAATCTCCATCTGCAACAGG 62
Db 287 CAACACCGACCGCAGCTGGGAGGAGAGACAGGACCTTGAATCTCCATCTGCAACAGG 346
QY 63 TCCTGGCTGGACCGGAGC--AGCTCTCTCTCTAGGATGACCTCACCTCCAGCTCTCCA 120
Db 347 TCCTGGCTGGACCGGAGCTATGCTCTCTCTAGGATGACCTCACCTCCAGCTCTCCA 406
QY 121 GTTTTCAGGTTGGAGACATTAGATGGAGGCGAAGAGATGGCTCTGAGGCGGACAGAGGA 180
Db 407 GTTTTCAGGTTGGAGACATTAGATGGAGGCGAAGAGATGGCTCTGAGGCGGACAGAGGA 466
QY 181 AAGCTGGATTTGGAGCGGCTGCTCCCATGGAGTCAAGTTCCAGGGCGAGGACCGG 240
Db 467 AAGCTGGATTTGGAGCGGCTGCTCCCATGGAGTCAAGTTCCAGGGCGAGGACCGG 526
QY 241 AAATTCCGCCCTCAGATTAAGATCAACTCACTACCGAAGGGAACAGGTGCCAGTCAG 300
Db 527 AAATTCCGCCCTCAGATTAAGATCAACTCACTACCGAAGGGAACAGGTGCCAGTCAG 586
QY 301 CCGGATCCAAACCGATTGACCGGATCGGCTCTTCAATGGGCTCTCCCGGGGTGTCGCC 360
Db 587 CCGGATCCAAACCGATTGACCGGATCGGCTCTTCAATGGGCTCTCCCGGGGTGTCGCC 646
QY 361 GAGGATCTGGCTGGACTTCCAGAGTACTGAGCAAGACCAAGTACCTCACCGACTCG 420
Db 647 GAGGATCTGGCTGGACTTCCAGAGTACTGAGCAAGACCAAGTACCTCACCGACTCG 706
QY 421 GAATACACAGAGGCTCCAGAGTAAAGCGTCTGATGAGGCTGTGCTGAACCTTAAG 480
Db 707 GAATACACAGAGGCTCCAGAGTAAAGCGTCTGATGAGGCTGTGCTGAACCTTAAG 766
QY 481 GACGGAGTCAATGCTGCAATCTGCCACTGCTGCAGATCGACAGGACTCTGGCAATCCT 540
Db 767 GACGGAGTCAATGCTGCAATCTGCCACTGCTGCAGATCGACAGGACTCTGGCAATCCT 826
QY 541 CAGCCCTGGTAAATGCCAGTGCACAGATGACTATTACCGAGGCCACAGCGCTCTGCAC 600
Db 827 CAGCCCTGGTAAATGCCAGTGCACAGATGACTATTACCGAGGCCACAGCGCTCTGCAC 886

QY 601 ATCGCCATTGAGAGAGAGTCTGCAGTGTGTGAGCTCTCTGCTGGTGGAGAAATGGGGCCCAAT 660
Db 887 ATCGCCATTGAGAGAGAGTCTGCAGTGTGTGAGCTCTCTGCTGGTGGAGAAATGGGGCCCAAT 946
QY 661 GTGCATGCCCGGGCGCTGCGGCGCTTCTTCCAGAGAGGCGCCCAAGGACTTGTCTTTTATTTTC 720
Db 947 GTGCATGCCCGGGCGCTGCGGCGCTTCTTCCAGAGAGGCGCCCAAGGACTTGTCTTTTATTTTC 1006
QY 721 GGTGAGCTACCCCTCTCTTTTGGCGCTTGGCAACCAAGCAGTGGGATGTGTGAAGCTACCTTC 780
Db 1007 GGTGAGCTACCCCTCTCTTTTGGCGCTTGGCAACCAAGCAGTGGGATGTGTGAAGCTACCTTC 1066
QY 781 CTGGAGAACCCACACACCGCGCTGCGAGCCTGAGCCTGAGCTCCAGGCGCAACACAGTC 840
Db 1067 CTGGAGAACCCACACACCGCGCTGCGAGCCTGAGCCTGAGCTCCAGGCGCAACACAGTC 1126
QY 841 CTGCATGCCCTTAGTGTATCTCGGACAACTCAGCTGAGAACATTTGCACTGTGTGACCCAGC 900
Db 1127 CTGCATGCCCTTAGTGTATCTCGGACAACTCAGCTGAGAACATTTGCACTGTGTGACCCAGC 1186
QY 901 ATGTATGATGGGCTCTCCAAAGCTGGGGCCCGCTCTGCCCTACCGTGCAGCTTGAGGAC 960
Db 1187 ATGTATGATGGGCTCTCCAAAGCTGGGGCCCGCTCTGCCCTACCGTGCAGCTTGAGGAC 1246
QY 961 ATCCGCAACCTGCAAGGATCTCACGCTCTGAACTGGCGCGCCCAAGGAGGCGCAAGTCCAG 1020
Db 1247 ATCCGCAACCTGCAAGGATCTCACGCTCTGAACTGGCGCGCCCAAGGAGGCGCAAGTCCAG 1306
QY 1021 ATTTTCAGGCAATCTCTGAGCGGAGTTTTCAGGACTGAGCCACCTTTCCCGAAAGTTC 1080
Db 1307 ATTTTCAGGCAATCTCTGAGCGGAGTTTTCAGGACTGAGCCACCTTTCCCGAAAGTTC 1366
QY 1081 ACCGAGTGGTGTATAGGCGCTGTCCGGGTGTCGTGTATGACCTTGTGTGTGACAGC 1140
Db 1367 ACCGAGTGGTGTATAGGCGCTGTCCGGGTGTCGTGTATGACCTTGTGTGTGACAGC 1426
QY 1141 TGTGAGGAGAACTCAGTGTGGAGATCAATGGCTTTTCAATTCAGAGGCGCGCACCGACAC 1200
Db 1427 TGTGAGGAGAACTCAGTGTGGAGATCAATGGCTTTTCAATTCAGAGGCGCGCACCGACAC 1486
QY 1201 CGAATGCTGTGTTTGGAGCGCCCTCAACAACTGCTGAGGCGAAATGGGATCTGCTCATC 1260
Db 1487 CGAATGCTGTGTTTGGAGCGCCCTCAACAACTGCTGAGGCGAAATGGGATCTGCTCATC 1546
QY 1261 CCCAAGTTCCTTAAACTTCTGTGTAACTGTATCTGATCTACATGTTTCACTTCCACCGCTGT 1320
Db 1547 CCCAAGTTCCTTAAACTTCTGTGTAACTGTATCTGATCTACATGTTTCACTTCCACCGCTGT 1606
QY 1321 GCCTACCATCAGCTACCTCTGAGAGAGCGCGCCCTCACTGAAAGCGGAGGTTGGA 1380
Db 1607 GCCTACCATCAGCTACCTCTGAGAGAGCGCGCCCTCACTGAAAGCGGAGGTTGGA 1663
QY 1381 AACTTCCATGCTGTGAGCGGCGCACATCTTATCTGCTAGGGGGGATCTACTCTCTCTGTG 1440
Db 1664 AACTTCCATGCTGTGAGCGGCGCACATCTTATCTGCTAGGGGGGATCTACTCTCTCTGTG 1723
QY 1441 GGGCAGCTGTGTTTCTTCTGGCGCGCACATCTGTTTCACTGTGATCTCTGTTTCAATAGACAGC 1500
Db 1724 GGGCAGCTGTGTTTCTTCTGGCGCGCACATCTGTTTCACTGTGATCTCTGTTTCAATAGACAGC 1783
QY 1501 TACTTTGAAATCTCTTCTTCCAGGCGCTGCTCAGTGTGTGCTCCAGGCTGTGTGT 1560
Db 1784 TACTTTGAAATCTCTTCTTCCAGGCGCTGCTCAGTGTGTGCTCCAGGCTGTGTGT 1843
QY 1561 TTCTGGCCCATCAGTGTGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1620
Db 1844 TTCTGGCCCATCAGTGTGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1903
QY 1621 AACCTGCTTTTATATACAGTGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1680
Db 1904 AACCTGCTTTTATATACAGTGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1963

QY 1681 AAGGTCAATCTCGGGACCTGCTGCGCTTCTCTGATCTACTAGTCTTCTTTCGGC 1740
Db 1964 AAGGTCAATCTCGGGACCTGCTGCGCTTCTCTGATCTACTAGTCTTCTTTCGGC 2023
QY 1741 TTGCTGTAGCTTGTGAGCTTGAGCCAGGAGCTTGGCGCCCGAAGCTCTACAGGC 1800
Db 2024 TTGCTGTAGCTTGTGAGCTTGAGCCAGGAGCTTGGCGCCCGAAGCTCTACAGGC 2083
QY 1801 CCCAATGCCACAGAGTCAGTTCAGGACCTTGGAGGACAGGAGGACAGGAGGACAGGAGG 1860
Db 2084 CCCAATGCCACAGAGTCAGTTCAGGACCTTGGAGGACAGGAGGACAGGAGGACAGGAGG 2143
QY 1861 CAGTACAGGGGTATCTGGAGGCTCTTGGAGCTCTTCAAAATTCACCATTCGCGATGGGC 1920
Db 2144 CAGTACAGGGGTATCTGGAGGCTCTTGGAGCTCTTCAAAATTCACCATTCGCGATGGGC 2203
QY 1921 GAGCTGGCTTTCAGGAGGAGCTGCATCTCCGGGACATGGTGTGCTGCTGCTGGCC 1980
Db 2204 GAGCTGGCTTTCAGGAGGAGCTGCATCTCCGGGACATGGTGTGCTGCTGCTGGCC 2263
QY 1981 TAGCTGCTGCTACCTACATCTGCTCTCAATGCTCATCGCCCTCATGAGCGAGACC 2040
Db 2264 TAGCTGCTGCTACCTACATCTGCTCTCAATGCTCATCGCCCTCATGAGCGAGACC 2323
QY 2041 GTCAACAGTGTGCGCACTGACAGCTGAGGACATCTGGAAGCTGCAGAAAGCCATCTCTGTC 2100
Db 2324 GTCAACAGTGTGCGCACTGACAGCTGAGGACATCTGGAAGCTGCAGAAAGCCATCTCTGTC 2383
QY 2101 CTGGAGATGAGATGGCTATTGGTGTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 2160
Db 2384 CTGGAGATGAGATGGCTATTGGTGTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 2443
QY 2161 ACCGTTGGCACTAAGCCAGATGGCAGCCCGATGAGCGCTGGTGTCTTCCAGGCTGGAGGAG 2220
Db 2444 ACCGTTGGCACTAAGCCAGATGGCAGCCCGATGAGCGCTGGTGTCTTCCAGGCTGGAGGAG 2503
QY 2221 GTGAATGGGCTTCATGGGAGCAGACGCTGCTACGCTGTGTGAGGAGCCGCTCAGGGGCA 2280
Db 2504 GTGAATGGGCTTCATGGGAGCAGACGCTGCTACGCTGTGTGAGGAGCCGCTCAGGGGCA 2563
QY 2281 GGTGTCCCTCGAACTCTCGAGAACCTGCTGCTGCTTCCCTCCCAAGGAGGATGAGGAT 2340
Db 2564 GGTGTCCCTCGAACTCTCGAGAACCTGCTGCTGCTTCCCTCCCAAGGAGGATGAGGAT 2623
QY 2341 GGTGCTCTCAGGAAATATGTGCCGCTCCAGCTCTCCAGTCCCACTGATGGCCGAGA 2400
Db 2624 GGTGCTCTCAGGAAATATGTGCCGCTCCAGCTCTCCAGTCCCACTGATGGCCGAGA 2683
QY 2401 TGCAGCAGGAGGCGCAGAGGACAGAGCAGAGGATCTTTTCCAAACACATCTGCTGGCTCTGG 2460
Db 2684 TGCAGCAGGAGGCGCAGAGGACAGAGCAGAGGATCTTTTCCAAACACATCTGCTGGCTCTGG 2743
QY 2461 GGTCCCACT 2469
Db 2744 GGTCCCACT 2752

RESULT 3
US-09-235-451-35
; Sequence 35, Application US/09235451
; GENERAL INFORMATION:
; APPLICANT: Julius, David J.
; APPLICANT: Caterina, Michael J.
; APPLICANT: Brake, Anthony J.
; TITLE OF INVENTION: NUCLEIC ACID SEQUENCES ENCODING
; TITLE OF INVENTION: CAPSAICIN RECEPTOR AND CAPSAICIN RECEPTOR-RELATED
; TITLE OF INVENTION: POLYPEPTIDES AND USES THEREOF
; FILE REFERENCE: 9076/084CIP
; CURRENT APPLICATION NUMBER: US/09/235,451
; PRIOR FILING DATE: 1999-01-22
; PRIOR FILING DATE: 1998-01-22
; PRIOR APPLICATION NUMBER: 08/915,461

; PRIOR FILING DATE: 1997-08-20
; NUMBER OF SEQ ID NOS: 48
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 35
; LENGTH: 2380
; TYPE: DNA
; ORGANISM: Homo sapiens
; NAME/KEY: CDS
; LOCATION: (19)...(2313)
; OTHER INFORMATION: Human VR2
US-09-235-451-35

Query Match 96.3%; Score 2378.4; DB 3; Length 2380;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 2379; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 79 CAGCCTCTCTCTCTAGGATGACCTCACCTCCAGCTCTCCAGTTTTCAGGTTGGAGACA 138
Db 1 CAGCCTCTCTCTCTAGGATGACCTCACCTCCAGCTCTCCAGTTTTCAGGTTGGAGACA 60
QY 139 TTAGATGGAGGGCAAGAAGATGGCTCTGAGGGCGGACAGAGGAAAGCTTGGATTTGGGAGC 198
Db 61 TTAGATGGAGGGCAAGAAGATGGCTCTGAGGGCGGACAGAGGAAAGCTTGGATTTGGGAGC 120
QY 199 GGGCTGCTCCCATGATGAGTCAAGTTCCAGGGCGGAGCCGGAATTTGGCCCTTCAGATA 258
Db 121 GGGCTGCTCCCATGATGAGTCAAGTTCCAGGGCGGAGCCGGAATTTGGCCCTTCAGATA 180
QY 259 AGAGTCAACTCACTACCGAAGGGAACAGGTGCCAGTCCAGCGGATCCAAACCGATTT 318
Db 181 AGAGTCAACTCACTACCGAAGGGAACAGGTGCCAGTCCAGCGGATCCAAACCGATTT 240
QY 319 GACCGAGATCGGCTCTTCAATGCGGTCTCCCGGGGTGTCCCGAGGATCTGGCTGGACTT 378
Db 241 GACCGAGATCGGCTCTTCAATGCGGTCTCCCGGGGTGTCCCGAGGATCTGGCTGGACTT 300
QY 379 CCAGAGTACTGAGCAAGACCAAGTACTTCCAGCTCGGAATACACAGAGGGCTCC 438
Db 301 CCAGAGTACTGAGCAAGACCAAGTACTTCCAGCTCGGAATACACAGAGGGCTCC 360
QY 439 ACAGGTAAGACGTCCTGATGAGGCTGTGAACTTAAAGACGAGTCAATGCTGTC 498
Db 361 ACAGGTAAGACGTCCTGATGAGGCTGTGAACTTAAAGACGAGTCAATGCTGTC 420
QY 499 ATTCTGCCACTGTCGAGATCGACAGGGAATCTTGGCAATCTCAGGCCCTTGGTAAATGCC 558
Db 421 ATTCTGCCACTGTCGAGATCGACAGGGAATCTTGGCAATCTCAGGCCCTTGGTAAATGCC 480
QY 559 CAGTGCACAGATGATCTTACCGAGGCCACAGCGCTCTGCAATCGGCATTTGAGAGAGG 618
Db 481 CAGTGCACAGATGATCTTACCGAGGCCACAGCGCTCTGCAATCGGCATTTGAGAGAGG 540
QY 619 AGTCTCAGTGTGAGGCTCTGTTGGAGATGGGGCCCAATGTGATGCCCGGCTGC 678
Db 541 AGTCTCAGTGTGAGGCTCTGTTGGAGATGGGGCCCAATGTGATGCCCGGCTGC 600
QY 679 GGGCGCTTCTTCCAGAGGGCCCAAGGGAATTTGCTTTTATTTTCGGTGAAGTACCCCTCTCT 738
Db 601 GGGCGCTTCTTCCAGAGGGCCCAAGGGAATTTGCTTTTATTTTCGGTGAAGTACCCCTCTCT 660
QY 739 TTGGCGCTTTCACCAAGCAGTGGATGTGTAAGCTAATCTCTGAGGAAACCCACACAG 798
Db 661 TTGGCGCTTTCACCAAGCAGTGGATGTGTAAGCTAATCTCTGAGGAAACCCACACAG 720
QY 799 CCGCCAGCTGTCAGGCCACTGATCCCGAGGCAACACAGTCTCTGATGCCCTAGTGTG 858
Db 721 CCGCCAGCTGTCAGGCCACTGATCCCGAGGCAACACAGTCTCTGATGCCCTAGTGTG 780
QY 859 ATCTCGGACAACTCAGCTGAGAACTTTGCACTGCTGGTGAACAGCATGTATGATGGCTCTC 918
Db 781 ATCTCGGACAACTCAGCTGAGAACTTTGCACTGCTGGTGAACAGCATGTATGATGGCTCTC 840

| | | | |
|----|------|--|------|
| Db | 121 | GGGCTGCTCCCAATGGAGTCACAGTTCCAGGGCGAGACCGGAAATTCGCCCCTCAGATA | 180 |
| Qy | 259 | AGAGTCAACCTCAACTACCGAAAGGGAAACAGGTGCCAGTCAGCCGGATCCAAACCCGATTT | 318 |
| Db | 181 | AGAGTCAACCTCAACTACCGAAAGGGAAACAGGTGCCAGTCAGCCGGATCCAAACCCGATTT | 240 |
| Qy | 319 | GACCGAGATCGGCTCTTTCAATGCGGCTCTCCGGGGTGTCCCGAGGATCTGGCTGCAGATT | 378 |
| Db | 241 | GACCGAGATCGGCTCTTTCAATGCGGCTCTCCGGGGTGTCCCGAGGATCTGGCTGCAGATT | 300 |
| Qy | 379 | CCAGAGTACTGTGAGCAAGA CCAGCAAGTA CCTCACCGACTCGGAATACACAGAGGGCTCC | 438 |
| Db | 301 | CCAGAGTACTGTGAGCAAGA CCAGCAAGTA CCTCACCGACTCGGAATACACAGAGGGCTCC | 360 |
| Qy | 439 | ACAGGTAAAGAGTCGCTGATGAAGCTGTCTGAACTTAAAGACGGAGTCATGCTCTGC | 498 |
| Db | 361 | ACAGGTAAAGAGTCGCTGATGAAGCTGTCTGAACTTAAAGACGGAGTCATGCTCTGC | 420 |
| Qy | 499 | ATTCTGCCACTGTCTGACAGATCGACAGGGAATCTTGGCAATCCTCAGCCCCCTGGTAAATGCC | 558 |
| Db | 421 | ATTCTGCCACTGTCTGACAGATCGACAGGGAATCTTGGCAATCCTCAGCCCCCTGGTAAATGCC | 480 |
| Qy | 559 | CAGTGCACAGATGACTATTATCCGAGGCCACAGCGCTCTGCACATCGCCATTTGAGAAAGAGG | 618 |
| Db | 481 | CAGTGCACAGATGACTATTATCCGAGGCCACAGCGCTCTGCACATCGCCATTTGAGAAAGAGG | 540 |
| Qy | 619 | AGTCTGCAGTGTGTAAGCTCCTGGTGGAGAAATGGGGCCCAATGTGCATGCCCCGGGCTTGC | 678 |
| Db | 541 | AGTCTGCAGTGTGTAAGCTCCTGGTGGAGAAATGGGGCCCAATGTGCATGCCCCGGGCTTGC | 600 |
| Qy | 679 | GGCCGCTTCTTCCAGAAAGGGCCAAAGGACTTGTCTTTTATTTTCGGTGAGCTACCCCTCTCT | 738 |
| Db | 601 | GGCCGCTTCTTCCAGAAAGGGCCAAAGGACTTGTCTTTTATTTTCGGTGAGCTACCCCTCTCT | 660 |
| Qy | 739 | TTGGCCCGCTTGCCACCAAGCAGTGGGATGTGGTAAGCTACCTCTCTGGAGAAACCCACACCAG | 798 |
| Db | 661 | TTGGCCCGCTTGCCACCAAGCAGTGGGATGTGGTAAGCTACCTCTCTGGAGAAACCCACACCAG | 720 |
| Qy | 799 | CCCCCAGCCTGCGAGGCCACTGACTCCCCAGGGCCAAACAGTCTGTGCATGCCCTAGTGATG | 858 |
| Db | 721 | CCCCCAGCCTGCGAGGCCACTGACTCCCCAGGGCCAAACAGTCTGTGCATGCCCTAGTGATG | 780 |
| Qy | 859 | ATCTCGGACAACTCAGCTGAGAACATTTGCACTGTGTGACACAGCATGTATGATGGCTCCTC | 918 |
| Db | 781 | ATCTCGGACAACTCAGCTGAGAACATTTGCACTGTGTGACACAGCATGTATGATGGCTCCTC | 840 |
| Qy | 919 | CAAGCTGGGGCCCGCTCTGCCCCCTACCGTGCAGCTTGAGGACATCCGCACACCTGCAGGAT | 978 |
| Db | 841 | CAAGCTGGGGCCCGCTCTGCCCCCTACCGTGCAGCTTGAGGACATCCGCACACCTGCAGGAT | 900 |
| Qy | 979 | CTCAGCCTCTGAAGCTGGCCGCCCAAGAGGGCAAGATTCGAGATTTTCAGGACACATCCTG | 1038 |
| Db | 901 | CTCAGCCTCTGAAGCTGGCCGCCCAAGAGGGCAAGATTCGAGATTTTCAGGACACATCCTG | 960 |
| Qy | 1039 | CAGCGGAGTTTTCAGGACTGAGCCACTTTTCCGAAAGTTTCCACGAGTCGTGCTATGGG | 1098 |
| Db | 961 | CAGCGGAGTTTTCAGGACTGAGCCACTTTTCCGAAAGTTTCCACGAGTCGTGCTATGGG | 1020 |
| Qy | 1099 | CCTGTCCGGGTGTCCGCTGTATGACCTGGCTTCTGTGGACAGCTGTGAGGAGAACTCAGTG | 1158 |
| Db | 1021 | CCTGTCCGGGTGTCCGCTGTATGACCTGGCTTCTGTGGACAGCTGTGAGGAGAACTCAGTG | 1080 |
| Qy | 1159 | CTGAGATCATTTGCTTTTCATTTGCAAGAGCCCGCACCGACACCGAATGGTCTGTTGGAG | 1218 |
| Db | 1081 | CTGAGATCATTTGCTTTTCATTTGCAAGAGCCCGCACCGACACCGAATGGTCTGTTGGAG | 1140 |
| Qy | 1219 | CCCCGTGAACAACTGCTGCAGGGCGAATGGGATCTGCTCATCCCCCAAGTTCTTCTTAAAC | 1278 |
| Db | 1141 | CCCCGTGAACAACTGCTGCAGGGCGAATGGGATCTGCTCATCCCCCAAGTTCTTCTTAAAC | 1200 |
| Qy | 1279 | TTCCCTGTGTAACTCATGTTCATCTTTCACCTGCTGTGCTTACCACATCAGCCTACC | 1338 |

QY 2419 GACAGAGCAGAGATCTTTCCAAACACATCTGCTGGCTCT 2458
|||||
Db 2341 GACAGAGCAGAGGATCTTTCCAAACACATCTGCTGGCTCT 2380

RESULT 5

US-09-149-476-191
; Sequence 191, Application US/09149476
; Patent No. 6420526
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: 186 Human Secreted proteins
; FILE REFERENCE: PZ002P1
; CURRENT APPLICATION NUMBER: US/09/149,476
; CURRENT FILING DATE: 1998-09-08
; EARLIER APPLICATION NUMBER: PCT/US98/04493
; EARLIER FILING DATE: 1998-03-06
; EARLIER APPLICATION NUMBER: 60/040,162
; EARLIER FILING DATE: 1997-03-07
; EARLIER APPLICATION NUMBER: 60/040,333
; EARLIER FILING DATE: 1997-03-07
; EARLIER APPLICATION NUMBER: 60/038,621
; EARLIER FILING DATE: 1997-03-07
; EARLIER APPLICATION NUMBER: 60/040,626
; EARLIER FILING DATE: 1997-03-07
; EARLIER APPLICATION NUMBER: 60/040,334
; EARLIER FILING DATE: 1997-03-07
; EARLIER APPLICATION NUMBER: 60/040,336
; EARLIER FILING DATE: 1997-03-07
; EARLIER APPLICATION NUMBER: 60/040,163
; EARLIER FILING DATE: 1997-03-07
; EARLIER APPLICATION NUMBER: 60/047,600
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,615
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,597
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,502
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,633
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,583
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,617
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,618
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,503
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,592
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,581
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,584
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,500
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,587
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,492
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,598
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,613
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,582
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,596
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,612
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,632

; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/047,601
; EARLIER FILING DATE: 1997-05-23
; EARLIER APPLICATION NUMBER: 60/043,580
; EARLIER FILING DATE: 1997-04-11
; EARLIER APPLICATION NUMBER: 60/043,568
; EARLIER FILING DATE: 1997-04-11
; EARLIER APPLICATION NUMBER: 60/043,314
; EARLIER FILING DATE: 1997-04-11
; EARLIER APPLICATION NUMBER: 60/043,569
; EARLIER FILING DATE: 1997-04-11
; EARLIER APPLICATION NUMBER: 60/043,311
; EARLIER FILING DATE: 1997-04-11
; EARLIER APPLICATION NUMBER: 60/043,671
; EARLIER FILING DATE: 1997-04-11
; EARLIER APPLICATION NUMBER: 60/043,674
; EARLIER FILING DATE: 1997-04-11
; EARLIER APPLICATION NUMBER: 60/043,669
; EARLIER FILING DATE: 1997-04-11
; EARLIER APPLICATION NUMBER: 60/043,312
; EARLIER FILING DATE: 1997-04-11
; EARLIER APPLICATION NUMBER: 60/043,313
; EARLIER FILING DATE: 1997-04-11
; EARLIER APPLICATION NUMBER: 60/043,672
; EARLIER FILING DATE: 1997-04-11
; EARLIER APPLICATION NUMBER: 60/043,315
; EARLIER FILING DATE: 1997-04-11
; EARLIER APPLICATION NUMBER: 60/048,974
; EARLIER FILING DATE: 1997-06-06
; EARLIER APPLICATION NUMBER: 60/056,886
; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/056,877
; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/056,889
; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/056,893
; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/056,630
; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/056,878
; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/056,662
; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/056,872
; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/056,882
; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/056,637
; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/056,903
; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/056,888
; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/056,879
; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/056,880
; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/056,894
; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/056,911
; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/056,636
; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/056,874
; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/056,910
; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/056,864
; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/056,631
; EARLIER FILING DATE: 1997-08-22
; EARLIER APPLICATION NUMBER: 60/056,845
; EARLIER FILING DATE: 1997-08-22

QY 1220 CCCTGAACAAACTGCTGAGCGGAAATGGGATCTGCTCATCCCAAGTTCTTCTTAAACT 1279
Db 1517 CCCTGAACAAACTGCTGAGCGGAAATGGGATCTGCTCATCCCAAGTTCTTCTTAAACT 1576
QY 1280 TCCTGTGTAATCTGATCTACATGTTCACTTTCACCGCTGTTGCTTACCATCAGCTACCC 1339
Db 1577 TCCTGTGTAATCTGATCTACATGTTCACTTTCACCGCTGTTGCTTACCATCAGCTACCC 1636
QY 1340 TGAAGAAGCAGCGCCCTCCCTCACCTGAAGCGAGGTTGAAACTTCCATGCTGCTGACGG 1399
Db 1637 TGAAGAAGCAGCGCCCTCCCTCACCTGAAGCGAGGTTGAAACTTCCATGCTGCTGACGG 1696
QY 1400 GGCACATCTTATCTGCTAGGGGAGTCTACCTCTCTGCTGGGCGAGCTGTGCTACTTCT 1459
Db 1697 GGCACATCTTATCTGCTAGGGGAGTCTACCTCTCTGCTGGGCGAGCTGTGCTACTTCT 1756
QY 1460 GCGCGCGCCAGCTGTTCACTGATCTGCTGTTTATAGACAGCTACTTTGAAATCTCTTCC 1519
Db 1757 GCGCGCGCCAGCTGTTCACTGATCTGCTGTTTATAGACAGCTACTTTGAAATCTCTTCC 1816
QY 1520 TGTTCACGGCCCTGCTCACAGTGTGCTCCAGGTGCTGTTTCTGGCCATCGAGTGGT 1579
Db 1817 TGTTCACGGCCCTGCTCACAGTGTGCTCCAGGTGCTGTTTCTGGCCATCGAGTGGT 1876
QY 1580 ACTGCCCCCTGTTGTTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1639
Db 1877 ACTGCCCCCTGTTGTTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1936
QY 1640 GTGGTTCACGACACACAGGATCTACAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1699
Db 1937 GTGGTTCACGACACACAGGATCTACAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1978
QY 1700 TGCTGCGCTTCTTCTGATCTACTTACTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCT 1759
Db 1979 -----AGCCCTGCTGTA 1989
QY 1760 GCTTGAGCCAGGAGCTTGGCGCCCGAAGTCTCTACAGGCCCAATGCCACAGAGTCTAG 1819
Db 1990 GCTTGAGCCAGGA -NNTTGGCGCCCGAAGTCTCTACAGGCCCAATGCCACAGAGTCTAG 2048
QY 1820 TGCAGCCATGAGGAGCAGAGGACAGAGGCAACGGGGCCAGTACAGGGGTATCTCTGG 1879
Db 2049 TGCAGCCATGAGGAGCAGAGGACAGAGGCAACGGGGCCAGTACAGGGGTATCTCTGG 2108
QY 1880 AAGCCTCTTGGAGCTCTTCAAAATTCACCATCGCATGCGGAGCTGGCTTCCAGGAGC 1939
Db 2109 AAGCCTCTTGGAGCTCTTCAAAATTCACCATCGCATGCGGAGCTGGCTTCCAGGAGC 2168
QY 1940 AGCTGCACTTCCGCGGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1999
Db 2169 AGCTGCACTTCCGCGGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2228
QY 2000 TCCTGCTGCTCAATGCTCATGCTTCTATGAGCGAGACCGTCAACAGTGTGCGCACTG 2059
Db 2229 TCCTGCTGCTCAATGCTCATGCTTCTATGAGCGAGACCGTCAACAGTGTGCGCACTG 2288
QY 2060 ACAGCTGGAGCATCTGGAAGCTGCAAGAGCCATCTCTGCTGAGATGAGATGCTGCT 2119
Db 2289 ACAGCTGGAGCATCTGGAAGCTGCAAGAGCCATCTCTGCTGAGATGAGATGCTGCT 2348
QY 2120 ATTGGTGGTGCAGGAAGCAGCGGCGAGTGTGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2179
Db 2349 ATTGGTGGTGCAGGAAGCAGCGGCGAGTGTGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2408
QY 2180 ATGCGACCCGATGAGCGCTGCTGCTTACGGGTGAGGAGGTGAATCGGGCTTCTATGGG 2239
Db 2409 ATGCGACCCGATGAGCGCTGCTGCTTACGGGTGAGGAGGTGAATCGGGCTTCTATGGG 2468
QY 2240 AGCAGAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2299
Db 2469 AGCAGAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2528

QY 2300 AGAACCCCTGCTCTGCTTCCCTCCCAAGGAGGATGAGGATGCTGCTTCTGAGGAAACT 2359
Db 2529 AGAACCCCTGCTCTGCTTCCCTCCCAAGGAGGATGAGGATGCTGCTTCTGAGGAAACT 2588
QY 2360 ATGTGCGCGTCCAGCTCTCTCCAGTCCCACTGATGCGCCAGATGAGCGAGGCCAGAGG 2419
Db 2589 ATGTGCGCGTCCAGCTCTCTCCAGTCCCACTGATGCGCCAGATGAGCGAGGCCAGAGG 2648
QY 2420 ACAGAGCAGAGGATCTTTCACCAACCAATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2469
Db 2649 ACAGAGCAGAGGATCTTTCACCAACCAATCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2698

RESULT 6

US-09-149-476-314
; Sequence 314, Application US/09149476
; Patent No. 6420526
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: 186 Human Secreted proteins .
; FILE REFERENCE: P2002P1
; CURRENT APPLICATION NUMBER: US/09/149,476
; CURRENT FILING DATE: 1998-09-08
; EARLIER APPLICATION NUMBER: PCT/US98/04493
; EARLIER FILING DATE: 1998-03-06
; EARLIER APPLICATION NUMBER: 60/040,162
; EARLIER FILING DATE: 1997-03-07
; EARLIER APPLICATION NUMBER: 60/040,333
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; EARLIER APPLICATION NUMBER: 60/047,613
; EARLIER FILING DATE: 1997-05-23

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; EARLIER APPLICATION NUMBER: 60/047,595
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; EARLIER FILING DATE: 1997-09-05
; EARLIER APPLICATION NUMBER: 60/049,610
; EARLIER FILING DATE: 1997-06-13
; EARLIER APPLICATION NUMBER: 60/061,060
; EARLIER FILING DATE: 1997-10-02

Query Match 83.5%; Score 2061.8; DB 3; Length 2860;
Best Local Similarity 95.1%; Pred. No. 0;
Matches 2364; Conservative 4; Mismatches 31; Indels 86; Gaps 20;

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| Qy | 3 | CGAGCCGACGCGAGCTGGGAGGAAGA | CAGGACCTTGACATCTCCATCTGCACAGG | 62 | Qy | 1074 | AAAGTTACCGAGTGTGCTATGGCCCTG | TCGGGTGTGCTGTATGACCTTGTCTGT | 1133 |
| Db | 325 | CAACACCGACGCGACTGGGAGGAAGAC | AGGACCCCTTGACATCTCCATCTGCACAGG | 384 | Db | 1404 | AAAGTTACCGAGTGTGCTATGGCCCTG | TCGGGTGTGCTGTATGACCTTGTCTGT | 1463 |
| Qy | 63 | TCCTGGCTGG-ACCGAGAGGCTCTCTCT | CTCTAGGATGACCTCACCTCTCAGCTCTCAG | 121 | Qy | 1134 | GGACAGCTGTGAGGAGAACTCAGTGTG | GGAGATCATTGCTTTTCATTGCAAGAGCCGCA | 1193 |
| Db | 385 | TCCTGGCTGGAAACCGAGCAGCTCTCT | CTCTAGGATGACCTCACCTCTCAGCTCTCAG | 444 | Db | 1464 | GGACAGCTGTGAGGAGAACTCAGTGTG | GGAGATCATTGCTTTTCATTGCAAGAGCCGCA | 1523 |
| Qy | 122 | TTTTCAGTTTGGAGACATTAGATGGAG | CGCAAGAGATGGCTCTGAGCGGACAGAGAA | 181 | Qy | 1194 | CCGACACCGAATGCTGCTTTTGGAGCC | CTGAAACAACTGCTGAGCGGAAATGGGATCT | 1253 |
| Db | 445 | TTTTCAGTTTGGAGACATTAGATGGAG | CGCAAGAGATGGCTCTGAGCGGACAGAGAA | 504 | Db | 1524 | CCGACACCGAATGCTGCTTTTGGAGCC | CTGAAACAACTGCTGAGCGGAAATGGGATCT | 1583 |
| Qy | 182 | AGCTGGATTTTGGAGCGGGCTGCTCTC | CCATGAGTCACTGAGCGGACAGACCGGA | 241 | Qy | 1254 | GCTCATCCCCAAGTTCTTTAAACTTCT | TGTAATCTGATCTACATCTTCTCAC | 1313 |
| Db | 505 | AGCTGGATTTTGGAGCGGGCTGCTCTC | CCATGAGTCACTGAGCGGACAGACCGGA | 564 | Db | 1584 | GCTCATCCCCAAGTTCTTTAAACTTCT | TGTAATCTGATCTACATCTTCTCAC | 1643 |
| Qy | 242 | AATTCGGCCC-TCAGATAAGAGTCAACT | -CACTACCGAAGGGAACAGGTGCACTCA | 299 | Qy | 1314 | CGCTGTGGCTTACATCAGCTTACCTTGA | AGAGCAGCGGCCCTCACCTGAAAGCGGA | 1373 |
| Db | 565 | AATTCGGCCCCTCAGATAAGAGTCAACT | -CACTACCGAAGGGAACAGGTGCACTCA | 624 | Db | 1644 | CGCTGTGGCTTACATCAGCTTACCTTGA | AGAGCAGCGGCCCTCACCTGAAAGCGGA | 1703 |
| Qy | 300 | GCCGGATCCAAACCGATTGACAGAGAT | CGGCTCTTCAATCGGCTCTCCCGGGGTGCC | 359 | Qy | 1374 | GGTTGGAAACTCCATGCTGTGAGCGGCA | CATCTTATCTGCTAGGGGGATCTACCT | 1433 |
| Db | 625 | GCCGGATCCAAACCGATTGACAGAGAT | CGGCTCTTCAATCGGCTCTCCCGGGGTGCC | 684 | Db | 1704 | GGTTGGAAACTCCATGCTGTGAGCGGCA | CATCTTATCTGCTAGGGGGATCTACCT | 1763 |
| Qy | 360 | CGAGGATCTGGCTGGACTTCCAGAGTAC | CTGAGCAAGACAGCAAGTACCTCACCGACT | 418 | Qy | 1434 | CCTCGT-GGGCCAGCTGTGGTACTTCT | TGGCGGCCACAGTGTTCATCTGGATCTCTTCA | 1492 |
| Db | 685 | CGAGGATCTGGCTGGACTTCCAGAGTAC | CTGAGCAAGACAGCAAGTACCTCACCGACT | 744 | Db | 1764 | CCTCGTGGGCGCAGCTGTGGTACTTCT | TGGCGGCCACAGTGTTCATCTGGATCTCTTCA | 1823 |
| Qy | 419 | -CGAATACACAGAGGCTCCAGGTAAGAC | GTGCTGTATGAAGGTGTGCTG-AACT | 476 | Qy | 1493 | TAGACAGTACTTTT-GAAATCTCTTCT | TCTGTTCCAGGCCCTGCTG-TCACAGTGTGTGCCA | 1550 |
| Db | 745 | CGGAAATACACAGAGGCTCCAGGTAAG | ACG-GCCTGTATGAAGGTGTGCTGAAACCT | 803 | Db | 1824 | TAGACAGTACTTTTGGAAATCTCTTCT | TCTGTTCCAGGCCCTGCTTCAAGTGTGTGCCA | 1883 |
| Qy | 477 | TAGGACGGAGTCAATCCCTGCACTTCT | GCCACTGCTGAGATCGACAGGGACTTGGCAA | 536 | Qy | 1551 | GGTGTGTGTTTCTT-GGCCATCGAGTGT | TACCTGCTGCTGCTGCTGCTGCTGCTGCTG | 1608 |
| Db | 804 | TAGGACGGGCTCAATCCCTGCACTTCT | GCCACTGCTGAGATCGACAGGGACTTGGCNA | 863 | Db | 1884 | GGTGTGTGTTTCTTGGGCCATCGAGTGT | TACCTGCTGCTGCTGCTGCTGCTGCTGCTG | 1943 |
| Qy | 537 | TCCTCAGCCCTGTGTAATGCCAGTGCA | GATGACTATTACCGAGGCCACAGCGCTCT | 596 | Qy | 1609 | CTGGCTGGCTGAACCTGCTTTTACT-ATA | CACTGTGGC-TTCCACAGCACACAGGCATCTACA | 1666 |
| Db | 864 | TCCTCAGCCCTGTGTAATGCCAGTGCA | GATGACTATTACCGAGGCCACAGCGCTCT | 923 | Db | 1944 | CTGGCTGGCTGAACCTGCTTTTACTATA | CACTGTGGC-TTCCACAGCACACAGGC | 1996 |
| Qy | 597 | GCAATCGCCATTGAG-AAGAGGAGTCTG | CAAGTGTGTAAGCTCTCTGTTGGAGAAATGGG | 655 | Qy | 1667 | GTGTGATGATCCAGAAAGGTCACTCTG | TGGGACCTGTGCTGCTTCTTGTATCTACTTAG | 1726 |
| Db | 924 | GCAATCGCCATTGAGAAAGAGGAGTCT | GCAAGTGTGTAAGCTCTCTGTTGGAGAAATGGG | 983 | Db | 1997 | -----AG | 1998 | |
| Qy | 656 | CCATGTGCATGCCCGGCTGCGGCGCTT | CTTCCAGAGGGCCACAGGGAATGCTTTT | 715 | Qy | 1727 | TCCTCTTTTTCGGCTTTCGCTGTAGCCCT | GTGAGCCTGAGCCAGGAGCTTGGCGCCCG | 1786 |
| Db | 984 | CCATGTGCATGCCCGGCTGCGGCGCTT | CTTCCAGAGGGCCACAGGGAATGCTTTT | 1043 | Db | 1999 | TCCTCTTTTTCGGCTTTCGCTGTAGCCCT | GTGAGCCTGAGCCAGGAGCTTGGCGCCCG | 2058 |
| Qy | 716 | ATTTTCGGTGTAGCTACCCCTCTCTTT | TGGCGCTTGCACCAAGCAGTGGGATGTGTAGCT | 775 | Qy | 1787 | AAGCTCTTACAGGCCCCCAATGCCACAG | AGTCACTGAGCCCATGGAGGGACAGAGGACG | 1846 |
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| Qy | 776 | ACCTCTGGAGAAACCCACACAGCCCGC | CAAGCTTGCAGGCCACTGACTCCAGGGCAACA | 835 | Qy | 1847 | AGGGCAACCGGGGCCAGTACAGGGGTAT | CTCTGGAAGCTCTTTCAAAATCTCA | 1906 |
| Db | 1104 | ACCTCTGGAGAAACCCACACAGCCCGC | CAAGCTTGCAGGCCACTGACTCCAGGGCAACA | 1163 | Db | 2119 | AGGGCAACCGGGGCCAGTACAGGGGTAT | CTCTGGAAGCTCTTTCAAAATCTCA | 2178 |
| Qy | 836 | CAGTCTGCAATGCCCTAGT-GATGATCT | CGGACAACTCAGCTGAGAACATTCGACTGGT | 894 | Qy | 1907 | CCATCGCATGCGGAGCTGCGCTTCCAG | GAGAGTGCATCTCCCGGGCATGTGTGTC | 1966 |
| Db | 1164 | CAGTCTGCAATGCCCTAGT-GATGATCT | CGGACAACTCAGCTGAGAACATTCGACTGGT | 1223 | Db | 2179 | CCATCGCATGCGGAGCTGCGCTTCCAG | GAGAGTGCATCTCCCGGGCATGTGTGTC | 2238 |
| Qy | 895 | ACCAGCATGTATGATGGCTCTCTCAAG | CTGGGCGCCGCC-TCGTGCCCTTACCGTGACGCT | 953 | Qy | 1967 | TGCTGTCTGCTGGCTTACGCTGTCTCA | CTTCTGCTCAACATGCTCATCTGCGCC | 2026 |
| Db | 1224 | ACCAGCATGTATGATGGCTCTCTCAAG | CTGGGCGCCGCC-TCGTGCCCTTACCGTGACGCT | 1283 | Db | 2239 | TGCTGTCTGCTGGCTTACGCTGTCTCA | CTTCTGCTCAACATGCTCATCTGCGCC | 2298 |
| Qy | 954 | TGAGGACATCCGCAACCTGCAAGGATCT | CACGCTCTGAAGCTGCGCCCAAGAGGGCAA | 1013 | Qy | 2027 | TCATGACGAGAACGCTCAACAGTGTG | CGCCACTGACAGCTGGAGCATCTGGAAGCTGAGA | 2086 |
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| Qy | 1014 | GATCGAGATTTTCHGGACATCTCTGAG | CGGGAGTTTTCAGGACTGAGCCACTTTCCCG | 1073 | Qy | 2087 | AAGCCATCTCTGTCTGAGATGAGAAAT | TGGCTATTGGTGTGTCAGGAAGAGAGCGGG | 2146 |
| Db | 1344 | GATCGAGATTTTTCAGGACATCTCTGAG | CGGGAGTTTTCAGGACTGAGCCACTTTCCCG | 1403 | Db | 2357 | AAGCCATCTCTGTCTGAGATGAGAAAT | TGGCTATTGGTGTGTCAGGAAGAGAGCGGG | 2416 |
| | | | | | Qy | 2147 | CAGGTGTGATGCTGACCCGTTGGCAC | TAAAG-CCAGATGGCAGCCCGGATGAGCGCTGTGTC | 2205 |

Db 2417 CAGGTGTGATGCTGACCGTTGGCACTAAGCCAGATGGCAGCCCGATGAGCGCTGGTGC 2476
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Db 2477 TTCAGGGTGGAGAGGTAAGTGGCTTTCATGGGAGCAGACGCTGCTACGCTGTGTGA 2536
Qy 2265 GGACCCGTGAGGGGCAAGTGTCCCTCGAACTCTCGAGAACCTGTCTGTGGCTTCCCTCC 2324
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Qy 2445 CATCTGCTGCTCTGGGGTCCCACT 2469
Db 2717 CATCTGCTGCTCTGGGGTCCCACT 2741

RESULT 7

US-09-484-970B-67
; Sequence 67, Application US/09484970B
; Patent No. 6426186

GENERAL INFORMATION:

; APPLICANT: Jones, Karen A.
; APPLICANT: Volkmut, Wayne
; APPLICANT: Walker, Michael G.
; TITLE OF INVENTION: BONE REMODELING GENES
; FILE REFERENCE: PB-0014 US
; CURRENT APPLICATION NUMBER: US/09/484,970B
; CURRENT FILING DATE: 2000-01-18
; NUMBER OF SEQ ID NOS: 172
; SOFTWARE: PERL Program
; SEQ ID NO 67
; LENGTH: 1790
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No. 6426186 198309.5CB1
; NAME/KEY: unsure
; LOCATION: 1241-1260
; OTHER INFORMATION: a, t, c, g, or other

US-09-484-970B-67

Query Match 69.7%; Score 1720; DB 3; Length 1790;
Best Local Similarity 98.8%; Pred. No. 0;
Matches 1731; Conservative 0; Mismatches 20; Indels 1; Gaps 1;
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Qy 779 TCCTGGAGAACCCACACAGCCGCGCAGCCTG -CAGGCCACTGACTCCAGGGGCAACACA 837
Db 61 TCCTGGAGAACCCACACAGCCGCGCAGCCTG -CAGGCCACTGACTCCAGGGGCAACACA 120
Qy 838 GTCTGTCATGCCCTAGTGTGATGATCTCGGACAACTCAGCTGAGAACATTGTCAGTGGTACC 897
Db 121 GTCTGTCATGCCCTAGTGTGATGATCTCGGACAACTCAGCTGAGAACATTGTCAGTGGTACC 180
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Db 181 AGCATGATGATGGGCTCTCTCAAGCTGGGGCCGCTCTGCCCTACCGTGCAGCTTGAG 240
Qy 958 GACATCCGCAACTGAGGATCTCAGCCCTCTGAGCTGGCCGCGCCAGAGGGGCAAGATC 1017
Db 241 GACATCCGCAACTGAGGATCTCAGCCCTCTGAGCTGGCCGCGCCAGAGGGGCAAGATC 300

Qy 1018 GAGATTTTTCAGGCACATCCTGCAGCGGGAGTTTTCAGGACTGAGCCACCTTTCCCGAAAG 1077
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Qy 1078 TTCACCGAGTGGTGTATGGGCTGTCCGGGTGTCTGTATGACCTGGCTTCTGTGGAC 1137
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Qy 1138 AGCTGTGAGGAGAACTCAGTGTGGAGATCATTTGCCCTTTTCATTGCAAGAGCCCGCACCGA 1197
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Db 661 GGAACCTCCATGCTGAGCGGCCACATCTTATCTGCTAGGGGGGATCTACCTCCTC 720
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Db 721 GTGGGCGAGTGTGTGTACTTCTGGCGGCGCAGCTGTTTCTGATCTGATCTGTTCTATGAC 780
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Db 841 TGTTCCTGGCCATCGAGTGTGTACCTGCGCCCTGCTGTGTGTGTCTGCTGTGTGTGGCTG 900
Qy 1618 CTGAACCTGTTTACTATATACAGTGTGCTTCCAGCACACAGGATCTTACAGTGTATGATC 1677
Db 901 CTGAACCTGTTTACTATATACAGTGTGCTTCCAGCACACAGGATCTTACAGTGTATGATC 960
Qy 1678 CAGAAGTGTCTCTGGGAGCTGTGCTGCTTCTGATCTTCTGATCTTCTGCTTCTTCTTTC 1737
Db 961 CAGAAGTGTCTCTGGGAGCTGTGCTGCTTCTGATCTTCTGATCTTCTGCTTCTTCTTTC 1020
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Db 1021 GGCTTCGCTGTAGCCCTGTGAGCCTGAGCCAGGAGGCTTGGCGCCCGCCGAGCTCTTACA 1080
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Qy 1918 GGCGAGCTGGCTTCCAGGAGCAGTGTGACCTTCCGCGGACATGGTGTGTGTGTGTGTGTG 1977
Db 1201 GGCGAGCTGGCTTCCAGGAGCAGTGTGACCTTCCGCGGACATGGTGTGTGTGTGTGTGTG 1260
Qy 1978 GCCTAGTG 2037
Db 1261 GCCTAGTG 1320
Qy 2038 ACCGTCAAAGTG 2097
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QY 2098 GTCTGGAGATGGAGATGGCTATTGGTGGTCAGAGAAAGACAGCGGGCAGGTGTGATG 2157
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QY 1381 GTCTGGAGATGGAGATGGCTATTGGTGGTCAGAGAAAGACAGCGGGCAGGTGTGATG 1440
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QY 2158 CTGACCGTTGGCACTAAGCCAGATCGACCGCGGATGAGCGCTGTGCTTCAGGGTGGAG 2217
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QY 1501 GAGGTGAATGGCTTCATGGAGCAGACGCTGCTACGCTGTGTGAGGACCCGTCAGGG 1560
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QY 1621 GATGTGCTCTGAGGAAATATGTGCGCGCTCCAGCTCCCTCCAGTCCAACTGATGGGCC 1680
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QY 2398 AGATGCAGCAGGAGCCAGAGCAGACAGCAGAGGATCTTCCAAACCATCTGCTGGCTC 2457
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QY 1681 AGATGCAGCAGGAGCCAGAGCAGACAGCAGAGGATCTTCCAAACCATCTGCTGGCTC 1740
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Db |||||
QY 1741 TGGGTCCCACT 1752
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US-09-235-451-3
; Sequence 3, Application US/09235451
; GENERAL INFORMATION:
; APPLICANT: Julius, David J.
; APPLICANT: Caterina, Michael J.
; APPLICANT: Brake, Anthony J.
; TITLE OF INVENTION: NUCLEIC ACID SEQUENCES ENCODING
; TITLE OF INVENTION: CAPSAICIN RECEPTOR AND CAPSAICIN RECEPTOR-RELATED
; FILE OF INVENTION: POLYPEPTIDES AND USES THEREOF
; FILE REFERENCE: 9076/084CIP
; CURRENT APPLICATION NUMBER: US/09/235,451
; CURRENT FILING DATE: 1999-01-22
; PRIOR APPLICATION NUMBER: 60/072,151
; PRIOR FILING DATE: 1998-01-22
; PRIOR APPLICATION NUMBER: 08/915,461
; PRIOR FILING DATE: 1997-08-20
; NUMBER OF SEQ ID NOS: 48
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 3
; LENGTH: 2736
; TYPE: DNA
; ORGANISM: R. rattus
; FEATURE:
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US-09-235-451-3

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Query Match 61.7%; Score 1522.4; DB 3; Length 2736;
Best Local Similarity 78.9%; Pred. No. 0;
Matches 1935; Conservative 0; Mismatches 466; Indels 53; Gaps 8;

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QY 88 CCTCTAGGATGACCTCACCTCCAGCTCTCCAGTTTCAGGTGGAGACATAGATGGA 147
Db |||||
QY 322 -CTCTAGGATGACCTCACCTCCAGCTCTCCAGTTTCAGGTGGAGACTTCCGATGGA 380
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QY 148 GGCCAAAGAGATGGCTCTGAGCGGACAGAGGAAAGCTGGATTTTGGAGCGGCTCCT 207
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QY 381 GATGAAGGGCAATGCTGAGTGAAACAGGGGAGAGGA-----ACCGCC 428
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QY 208 CCCATGAGTCAAGTTCCAGGGCGAGGACCGGAAATTCGCCCTCCAGATAAGATCAAC 267
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1570 ATCAGTGTGTACCTGCCCCCTGCTGTGTCTGCGTGTGTGCTGGCTGGCTGAACTGCTT 1529
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2287 CTTGGAATCTCGAGAAACCTGTCTGCTGCTTCCCTCCCAAGGAGGATGAGGATGCTGCC 2346
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RESULT 9
US-09-978-303-3
; Sequence 3, Application US/09978303
; Patent No. 6790629
; GENERAL INFORMATION:
; APPLICANT: Julius, David J.
; APPLICANT: Caterina, Michael J.
; APPLICANT: Brake, Anthony J.
; TITLE OF INVENTION: Nucleic acid sequences encoding
; TITLE OF INVENTION: capsaicin receptor and capsaicin receptor-related
; FILE REFERENCE: UCAL084CON
; CURRENT APPLICATION NUMBER: US/09/978,303
; CURRENT FILING DATE: 2001-10-15
; PRIOR APPLICATION NUMBER: 09/235,451
; PRIOR FILING DATE: 1999-01-22
; PRIOR APPLICATION NUMBER: 60/072,151
; PRIOR FILING DATE: 1998-01-22
; PRIOR APPLICATION NUMBER: 08/915,461
; PRIOR FILING DATE: 1997-08-20
; NUMBER OF SEQ ID NOS: 48
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 2736
; TYPE: DNA
; ORGANISM: R. rattus
US-09-978-303-3

Query Match 61.7%; Score 1522.4; DB 3; Length 2736;
Best Local Similarity 78.9%; Pred. No. 0;
Matches 1935; Conservative 0; Mismatches 466; Indels 53; Gaps 8;
QY 28 AGACAGGACCCCTTGACATCTCCATCTGCACAGAGGTCTGGCTGGACCGCAGCAGCTTCCT 87
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DB 2463 TGGGCTTCAAGGAGCAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2522
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RESULT 10

US-09-235-451-22
; Sequence 22, Application US/09235451
; GENERAL INFORMATION:
; APPLICANT: Julius, David J.
; APPLICANT: Caterina, Michael J.
; APPLICANT: Brake, Anthony J.
; TITLE OF INVENTION: NUCLEIC ACID SEQUENCES ENCODING
; TITLE OF INVENTION: CAPSAICIN RECEPTOR AND CAPSAICIN RECEPTOR-RELATED
; TITLE OF INVENTION: POLYPEPTIDES AND USES THEREOF
; FILE REFERENCE: 9076/084CIP
; CURRENT APPLICATION NUMBER: US/09/235,451
; CURRENT FILING DATE: 1999-01-22
; PRIOR APPLICATION NUMBER: 60/072,151
; PRIOR FILING DATE: 1998-01-22
; PRIOR APPLICATION NUMBER: 08/915,461
; PRIOR FILING DATE: 1997-08-20


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Db 411 ACCGTCACAGTGTGCGCACTGACAGCTGGAGCATCTGGAAGCTGCAGAAAGCCATCTCT 470
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RESULT 12
US-09-149-476-315
; Sequence 315, Application US/09149476
; Patent No. 6420526
; GENERAL INFORMATION:
; APPLICANT: Rosen et al.
; TITLE OF INVENTION: 186 Human Secreted proteins
; FILE REFERENCE: P2002P1
; CURRENT APPLICATION NUMBER: US/09/149,476
; CURRENT FILING DATE: 1998-09-08
; EARLIER APPLICATION NUMBER: PCT/US98/04493
; EARLIER FILING DATE: 1998-03-06
; EARLIER APPLICATION NUMBER: 60/040,162
; EARLIER FILING DATE: 1997-03-07
; EARLIER APPLICATION NUMBER: 60/040,333
; EARLIER FILING DATE: 1997-03-07
; EARLIER APPLICATION NUMBER: 60/038,621
; EARLIER FILING DATE: 1997-03-07
; EARLIER APPLICATION NUMBER: 60/040,626
; EARLIER FILING DATE: 1997-03-07
; EARLIER APPLICATION NUMBER: 60/040,334
; EARLIER FILING DATE: 1997-03-07
; EARLIER APPLICATION NUMBER: 60/040,336
; EARLIER FILING DATE: 1997-03-07
; EARLIER APPLICATION NUMBER: 60/040,163
; EARLIER FILING DATE: 1997-03-07
; EARLIER APPLICATION NUMBER: 60/047,600
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; EARLIER APPLICATION NUMBER: 60/047,615
; EARLIER FILING DATE: 1997-05-23
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; EARLIER APPLICATION NUMBER: 60/056,662
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; EARLIER APPLICATION NUMBER: 60/056,882
; EARLIER FILING DATE: 1997-08-22
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| / | EARLIER FILING DATE: 1997-06-06 |
| / | EARLIER APPLICATION NUMBER: 60/057,650 |
| / | EARLIER FILING DATE: 1997-09-05 |
| / | EARLIER APPLICATION NUMBER: 60/056,884 |
| / | EARLIER FILING DATE: 1997-08-22 |
| / | EARLIER APPLICATION NUMBER: 60/057,669 |
| / | EARLIER FILING DATE: 1997-09-05 |
| / | EARLIER APPLICATION NUMBER: 60/049,610 |
| / | EARLIER FILING DATE: 1997-06-13 |
| / | EARLIER APPLICATION NUMBER: 60/061,060 |
| / | EARLIER FILING DATE: 1997-10-02 |
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| DB | 1 CTGCTTGCTGTCGCGTGTGCTGGGCTGGCTGAACCTGCCTTTACTATATACAGTGGCTTC 60 |
| QY | 1648 CAGCACACAGGCATCTACAGTGTCAATGATCCAGAAGGTCACTCTGCCGGACCCTGCTGCGC 1707 |
| DB | 61 CAGCACACAGGCATCTACAGTGTCAATGATCCAGA----- 94 |
| QY | 1708 TTCCCTTCTCATCTACTTAGTCTTCTCTTTTCGGCTTCGCTGTAGCCCTGGTGAGCCCTGAGC 1767 |
| DB | 95 -----AGCCCTGGTGAGCCCTGAGC 113 |
| QY | 1768 CAGGAGGCTTGGCGGCCCGAAGCTCCTACAGGGCCCCAAATGCCACACAGAGTCAGTGCAGCCC 1827 |
| DB | 114 CAGGA-NNTTGGCGGCCCGAGAGCTCCTACAGGCCCAAATGCCACACAGAGTCAGTGCAGCCC 172 |
| QY | 1828 ATGAGGGGACAGGAGGACAGGGGCAACCGGGGCCCACTACAGGGGTATCTTGGAAAGCTCC 1887 |
| DB | 173 ATGAGGGGACAGGAGGACAGGGGCAACCGGGGCCCACTACAGGGGTATCTTGGAAAGCTCC 232 |
| QY | 1888 TTGGAGCTCTTCAAATTACCATCGGCATGGGCGAGCTGGCCCTTCCAGGAGCAGCTGCAC 1947 |
| DB | 233 TTGGAGCTCTTCAAATTACCATCGGCATGGGCGAGCTGGCCCTTCCAGGAGCAGCTGCAC 292 |
| QY | 1948 TTCCGGGGCATGGT 2007 |
| DB | 293 TTCCGGGGCATGGT 352 |
| QY | 2008 CTCACAATGCTCATCGCCCTCATG-AGCGAGACCGTCAACAGTGTGCCCATGACAGCTG 2066 |
| DB | 353 CTCACAATGCTCATCGCCCTCATGNAGCGAGACCGWCACACAGTGTGCCCATGACAGCTG 412 |
| QY | 2067 GAGCATCTGGAAGCTCGAAGAACCATCTCTGTCTGGAGATGGAGATGGCTATTGGTG 2126 |
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| QY | 2127 GTGCAGGAAGACAGCGGGCAGGT 2186 |
| DB | 473 GTGCAGGAAGACAGCGGGCAGGT 532 |
| QY | 2187 CCCGGATGACCGTGGTGTCTCAGGGTGGAGGAGGTGAATCGGGCTTTCATGGGAGCAGAC 2246 |
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| DB | 593 GCTGCCCTAGCTGTGTGAGGACCCGTCAGGGGAGGTGTCCCTCGAACTCTCGAGAACCC 652 |
| QY | 2307 TGTCTCTGGCTTCCCTCCCAAGGAGGATGAGGATGGTCCCTCTGAGGAAAATATGTGCC 2366 |
| DB | 653 TGTCTCTGGCTTCCCTCCCAAGGAGGATGAGGATGGTCCCTCTGAGGAAAATATGTGCC 712 |
| QY | 2367 CGTCCAGCTCTCCAGTCCAATCTGATGGGCCCATGACGAGGAGGCGCAGAGGACAGAC 2426 |

Db 713 CTTCCAGTCTCTCCAGTCCAACTGATGGCCAGATGACAGAGGCCAGAGGACAGAGC 772
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Db 773 AGAGGATCTTTCACCAACCAATCTGCTGGCTCTGGGGTCCCACT 815

RESULT 13

US-09-667-422-2
; Sequence 2, Application US/09667422
; Patent No. 6482611
; GENERAL INFORMATION:
; APPLICANT: Cortright, Daniel
; APPLICANT: Krause, James
; TITLE OF INVENTION: Human Capsaicin Receptor and Uses Thereof
; FILE REFERENCE: HCR
; CURRENT APPLICATION NUMBER: US/09/667,422
; CURRENT FILING DATE: 2001-06-07
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
; LENGTH: 4182
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-667-422-2

Query Match 26.8%; Score 662.4; DB 3; Length 4182;
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Matches 1207; Conservative 0; Mismatches 731; Indels 36; Gaps 7;

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Db 707 ACCATCCCCTGCTCTTGAGATCGCGGCAACCGACAGCCCTGAAGAGCTTGTCAAC 766
Qy 556 GCCCAGTGCCAGATGACTATTACCGAGGCCACAGCGCTCTGCACATCGCCATGAGAAG 615
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Qy 1981 TAGCTGTCTACCTACATCTCTGCTGCTCAACATGCTCATCGCCCTCATGAGGAGAGC 2040
Db 2189 TATGTAATCTCACCTACATCT 2248

GenCore version 5.1.7
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OM protein - protein search, using sw model

Run on: February 18, 2006, 03:36:16 ; Search time 49 Seconds
(without alignments)
1289.066 Million cell updates/sec

Title: US-09-445-614B-2

Perfect score: 4004

Sequence: 1 MTSPPSPVFRLETLGGQE.....EDDGASENVVPLLQSN 764

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 572060 seqs, 82675679 residues

Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

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| 2 | 4004 | 100.0 | 764 | 2 | US-09-978-303-36 |
| 3 | 3988.5 | 99.6 | 889 | 2 | US-09-132-316-2 |
| 4 | 3988.5 | 99.6 | 889 | 2 | US-10-137-316-2 |
| 5 | 3051.5 | 76.2 | 761 | 2 | US-09-235-451-4 |
| 6 | 3051.5 | 76.2 | 761 | 2 | US-09-978-303-4 |
| 7 | 3036.5 | 75.8 | 727 | 2 | US-09-235-451-23 |
| 8 | 3036.5 | 75.8 | 727 | 2 | US-09-978-303-23 |
| 9 | 1689 | 42.2 | 843 | 2 | US-09-235-451-25 |
| 10 | 1689 | 42.2 | 843 | 2 | US-09-978-303-25 |
| 11 | 1652 | 41.3 | 838 | 2 | US-09-235-451-2 |
| 12 | 1652 | 41.3 | 838 | 2 | US-09-132-316-3 |
| 13 | 1652 | 41.3 | 838 | 2 | US-09-667-422-9 |
| 14 | 1652 | 41.3 | 838 | 2 | US-09-978-303-2 |
| 15 | 1652 | 41.3 | 838 | 2 | US-10-246-435-9 |
| 16 | 1652 | 41.2 | 839 | 2 | US-10-137-316-3 |
| 17 | 1651.5 | 41.2 | 839 | 2 | US-09-667-422-4 |
| 18 | 1651.5 | 41.2 | 839 | 2 | US-10-246-435-4 |
| 19 | 1651.5 | 41.1 | 839 | 2 | US-09-197-636-2 |
| 20 | 1644.5 | 41.1 | 839 | 2 | US-09-197-636-8 |
| 21 | 1644.5 | 41.1 | 839 | 2 | US-09-235-451-34 |
| 22 | 1644.5 | 41.1 | 839 | 2 | US-09-978-303-34 |
| 23 | 1639.5 | 40.9 | 839 | 2 | US-09-533-220A-2 |
| 24 | 1639.5 | 40.9 | 839 | 2 | US-09-949-016-6937 |
| 25 | 1639.5 | 40.9 | 839 | 2 | US-10-128-853-2 |
| 26 | 1638.5 | 40.9 | 839 | 2 | US-09-197-636-4 |
| 27 | 1486 | 37.1 | 798 | 2 | US-09-949-016-9926 |

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| 28 | 1471 | 36.7 | 871 | 2 | US-09-500-123-7 | Sequence 7, Appli |
| 29 | 1440 | 36.0 | 279 | 2 | US-09-149-476-500 | Sequence 500, App |
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| 35 | 607.5 | 15.2 | 727 | 2 | US-09-350-457A-4 | Sequence 4, Appli |
| 36 | 430.5 | 10.8 | 511 | 2 | US-09-759-143-909 | Sequence 909, App |
| 37 | 430.5 | 10.8 | 511 | 2 | US-10-012-896-909 | Sequence 909, App |
| 38 | 274 | 6.8 | 57 | 2 | US-09-235-451-15 | Sequence 15, Appli |
| 39 | 274 | 6.8 | 57 | 2 | US-09-978-303-15 | Sequence 15, Appli |
| 40 | 272 | 6.8 | 232 | 2 | US-09-149-476-623 | Sequence 623, App |
| 41 | 247 | 6.2 | 71 | 2 | US-09-235-451-14 | Sequence 14, Appli |
| 42 | 247 | 6.2 | 71 | 2 | US-09-978-303-14 | Sequence 14, Appli |
| 43 | 225 | 5.6 | 1709 | 2 | US-09-332-812A-6 | Sequence 6, Appli |
| 44 | 223.5 | 5.6 | 978 | 2 | US-09-949-016-9882 | Sequence 9882, Ap |
| 45 | 215 | 5.4 | 974 | 2 | US-09-949-016-11563 | Sequence 11563, A |

ALIGNMENTS

RESULT 1

US-09-235-451-36

; Sequence 36, Application US/09235451

; GENERAL INFORMATION:

; APPLICANT: Julius, David J.

; APPLICANT: Caterina, Michael J.

; APPLICANT: Brake, Anthony J.

; TITLE OF INVENTION: NUCLEIC ACID SEQUENCES ENCODING

; TITLE OF INVENTION: CAPSAICIN RECEPTOR AND CAPSAICIN RECEPTOR-RELATED

; TITLE OF INVENTION: POLYPEPTIDES AND USES THEREOF

; FILE REFERENCE: 9076/084CIP

; CURRENT APPLICATION NUMBER: US/09/235,451

; PRIOR FILING DATE: 1999-01-22

; PRIOR FILING DATE: 1998-01-22

; PRIOR FILING DATE: 1997-08-20

; NUMBER OF SEQ ID NOS: 48

; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 36

; LENGTH: 764

; TYPE: PRT

; ORGANISM: Homo sapiens

; US-09-235-451-36

Query Match 100.0%; Score 4004; DB 2; Length 764;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 764; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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| Db | 1 | MTSPSSPVFRLETLGGQSDGSEADRGKLDGSGLPMPESQFGEDRKFPQIRVNLNY | 60 |
| Qy | 61 | RKGTGASQDPNPFDRDLFNAVSRGVPEDLAGLPEYLSKTYLTSEYTEGSTGTCL | 120 |
| Db | 61 | RKGTGASQDPNPFDRDLFNAVSRGVPEDLAGLPEYLSKTYLTSEYTEGSTGTCL | 120 |
| Qy | 121 | MKAVLNKDGVNACILPLQIDRDSGNPQLVNAQCTDDYRGHSAHLIAIEKRSLOCVK | 180 |
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| Qy | 241 | TDSQGNVTLHALVMSIDNSAENIALVTSMYDGLLOAGARLCPTVQLEDINLQDLPKL | 300 |
| Db | 241 | TDSQGNVTLHALVMSIDNSAENIALVTSMYDGLLOAGARLCPTVQLEDINLQDLPKL | 300 |
| Qy | 301 | AAKEGKTEIFRHLIQREFPSGLSHLSRKFTWCYGPVRVSLYDLASVDSCEANSVLEIIAF | 360 |

Db 301 AAKEGKIEIFRHLQREFSGLSHSRKFTWCYGPVRVSLYDLASVDSCEENSVLIEIAF 360
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Db 361 HCKSPHRHRMVLEPLNKLQAKWDLII PKFFLNFLCNLIYMEIFTAVAHQPTLKKQAA 420
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Db 421 PHLKAEVGNMMLTGHLII LGGIYLLVGLWLVGMNLIYYTRGFQHTGIYSVMIOKVILRDLRFL 480
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QY 541 IYLVFLFGFAVALVLSQEAWRPEAPTGNPNATESVQPMEGQDEGNGAQRGILEASLEL 600
Db 541 IYLVFLFGFAVALVLSQEAWRPEAPTGNPNATESVQPMEGQDEGNGAQRGILEASLEL 600
QY 601 FKFTIGMGLAFQEQHFRGMVLLII LAYVLLTYILLNMLIALMSETVNSVATDSWSIW 660
Db 601 FKFTIGMGLAFQEQHFRGMVLLII LAYVLLTYILLNMLIALMSETVNSVATDSWSIW 660
QY 661 KLOKATSVLEMENGYWMCCKQKQAGVMLTVGTGKDGSPDERWCFRVEEVNWSWEOQLTPT 720
Db 661 KLOKATSVLEMENGYWMCCKQKQAGVMLTVGTGKDGSPDERWCFRVEEVNWSWEOQLTPT 720
QY 721 LCEDPSGAGVPRILENPVLASPPKEDGSEENYVPVQLLQSN 764
Db 721 LCEDPSGAGVPRILENPVLASPPKEDGSEENYVPVQLLQSN 764

RESULT 2

US-09-978-303-36
; Sequence 36 Application US/09978303
; Patent No. 6790629
; GENERAL INFORMATION:
; APPLICANT: Julius, David J.
; APPLICANT: Caterina, Michael J.
; APPLICANT: Brake, Anthony J.
; TITLE OF INVENTION: Nucleic acid sequences encoding
; TITLE OF INVENTION: capsaicin receptor and capsaicin receptor-related
; TITLE OF INVENTION: polypeptides and uses thereof
; FILE REFERENCE: UCAL084CON
; CURRENT APPLICATION NUMBER: US/09/978,303
; PRIOR FILING DATE: 2001-10-15
; PRIOR FILING DATE: 1999-01-22, 451
; PRIOR FILING DATE: 1999-01-22, 151
; PRIOR FILING DATE: 1998-01-22
; PRIOR FILING DATE: 1997-08-20
; NUMBER OF SEQ ID NOS: 48
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 36
; LENGTH: 764
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-978-303-36

Query Match 100.0%; Score 4004; DB 2; Length 764;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 764; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MTSPSSPVFRLETLDDGGQDGEADRGKLDGSGLPPMESQFGEDRKFAPOIRVNLNY 60
Db 1 MTSPSSPVFRLETLDDGGQDGEADRGKLDGSGLPPMESQFGEDRKFAPOIRVNLNY 60
QY 61 RKGTSQDPNFRDRDLNFAVSRGVPEDLAGLPEVLSKTSKYLTDSEYTEGSTGKTCL 120
Db 61 RKGTSQDPNFRDRDLNFAVSRGVPEDLAGLPEVLSKTSKYLTDSEYTEGSTGKTCL 120
QY 121 MKAVLWLDGKNACILPLLQIDRDSGNPQLVNAQCTDDYRGHSAHIAIEKRSLQCCKV 180

Db 121 MKAVLWLDGKNACILPLLQIDRDSGNPQLVNAQCTDDYRGHSAHIAIEKRSLQCCKV 180
QY 181 LLVENGANVHARACGRFFQKGQCTCFYFGELPLSLAACTKQMDVSYLLENPHQPASLOA 240
Db 181 LLVENGANVHARACGRFFQKGQCTCFYFGELPLSLAACTKQMDVSYLLENPHQPASLOA 240
QY 241 TDSQGNVTLHALVMSIDNSAENIALVTSYDGLLQAGARLCPTVQLEDIRNLQDLTPLKL 300
Db 241 TDSQGNVTLHALVMSIDNSAENIALVTSYDGLLQAGARLCPTVQLEDIRNLQDLTPLKL 300
QY 301 AAKEGKIEIFRHLQREFSGLSHSRKFTWCYGPVRVSLYDLASVDSCEENSVLIEIAF 360
Db 301 AAKEGKIEIFRHLQREFSGLSHSRKFTWCYGPVRVSLYDLASVDSCEENSVLIEIAF 360
QY 361 HCKSPHRHRMVLEPLNKLQAKWDLII PKFFLNFLCNLIYMEIFTAVAHQPTLKKQAA 420
Db 361 HCKSPHRHRMVLEPLNKLQAKWDLII PKFFLNFLCNLIYMEIFTAVAHQPTLKKQAA 420
QY 421 PHLKAEVGNMMLTGHLII LGGIYLLVGLWLVGMNLIYYTRGFQHTGIYSVMIOKVILRDLRFL 480
Db 421 PHLKAEVGNMMLTGHLII LGGIYLLVGLWLVGMNLIYYTRGFQHTGIYSVMIOKVILRDLRFL 480
QY 481 TVVSQVLCFLAIEWYLPILVLSALVGLWNLIIYYTRGFQHTGIYSVMIOKVILRDLRFL 540
Db 481 TVVSQVLCFLAIEWYLPILVLSALVGLWNLIIYYTRGFQHTGIYSVMIOKVILRDLRFL 540
QY 541 IYLVFLFGFAVALVLSQEAWRPEAPTGNPNATESVQPMEGQDEGNGAQRGILEASLEL 600
Db 541 IYLVFLFGFAVALVLSQEAWRPEAPTGNPNATESVQPMEGQDEGNGAQRGILEASLEL 600
QY 601 FKFTIGMGLAFQEQHFRGMVLLII LAYVLLTYILLNMLIALMSETVNSVATDSWSIW 660
Db 601 FKFTIGMGLAFQEQHFRGMVLLII LAYVLLTYILLNMLIALMSETVNSVATDSWSIW 660
QY 661 KLOKATSVLEMENGYWMCCKQKQAGVMLTVGTGKDGSPDERWCFRVEEVNWSWEOQLTPT 720
Db 661 KLOKATSVLEMENGYWMCCKQKQAGVMLTVGTGKDGSPDERWCFRVEEVNWSWEOQLTPT 720
QY 721 LCEDPSGAGVPRILENPVLASPPKEDGSEENYVPVQLLQSN 764
Db 721 LCEDPSGAGVPRILENPVLASPPKEDGSEENYVPVQLLQSN 764

RESULT 3

US-09-132-316-2
; Sequence 2 Application US/09132316B
; Patent No. 6444440
; GENERAL INFORMATION:
; APPLICANT: Young, Paul E.
; APPLICANT: Ruben, Steven M.
; TITLE OF INVENTION: Vanilloid Receptor-2
; FILE REFERENCE: 1488, 1110000
; CURRENT APPLICATION NUMBER: US/09/132,316B
; CURRENT FILING DATE: 1998-08-11
; EARLIER APPLICATION NUMBER: US 60/040,163
; EARLIER FILING DATE: 1997-03-07
; EARLIER APPLICATION NUMBER: PCT/US98/04493
; EARLIER FILING DATE: 1998-03-06
; NUMBER OF SEQ ID NOS: 67
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
; LENGTH: 889
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-132-316-2

Query Match 99.6%; Score 3988.5; DB 2; Length 889;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 763; Conservative 0; Mismatches 0; Indels 1; Gaps 1;

QY 1 MTSPSSPVFRLETLDDGGQDGEADRGKLDGSGLPPMESQFGEDRKFAPOIRVNLNY 60

Db 127 MTSPTSSSPVFRLETLDCGQEDGSEADRGKLDGSGLPMPESQFQGEDRKFPAPQIRVNLNY 186
Qy 61 RKGTCASQPDNRRDRLFNASRGVPEDLAGLPEYLSKTSKYLTDSEYTEGSTGKTCL 120
Db 187 RKGTCASQPDNRRDRLFNASRGVPEDLAGLPEYLSKTSKYLTDSEYTEGSTGKTCL 246
Qy 121 MKAVLNLDGWNACILPLQLQIDRDSGNPQPLVNAQCTDDYYRSHSALHIAIEKRSLOCVK 180
Db 247 MKAVLNLDGWNACILPLQLQIDRDSGNPQPLVNAQCTDDYYRSHSALHIAIEKRSLOCVK 306
Qy 181 LLVENGANVHARACGRPFQKGCTCFYEGELPLSLAACTKQWDVSYLLENPHOPASLOA 240
Db 307 LLVENGANVHARACGRPFQKGCTCFYEGELPLSLAACTKQWDVSYLLENPHOPASLOA 366
Qy 241 TDSQNTVLHALVMSNSAENIALVTSMYDGLLQAGARLCTVQLEDIRNLQDLPKL 300
Db 367 TDSQNTVLHALVMSNSAENIALVTSMYDGLLQAGARLCTVQLEDIRNLQDLPKL 426
Qy 301 AAKGKIEIFRHILQREFSGLSHLSRKFTWCYGPVRVSLYDLASVDSCEENSVEIIF 360
Db 427 AAKGKIEIFRHILQREFSGLSHLSRKFTWCYGPVRVSLYDLASVDSCEENSVEIIF 486
Qy 361 HCKSPHRRMVVLEPLNKLQAKWDLIPKFFLNFLCNLIYMFITAVAHQPTLKK-AA 420
Db 487 HCKSPHRRMVVLEPLNKLQAKWDLIPKFFLNFLCNLIYMFITAVAHQPTLKK-AA 545
Qy 421 PHLKAEGVNSMLLTGHILILGGIYLLVQGLWYFRRHVFIIWISFIDSYPEILFQALL 480
Db 546 PHLKAEGVNSMLLTGHILILGGIYLLVQGLWYFRRHVFIIWISFIDSYPEILFQALL 605
Qy 481 TVVSQVLCFLAIEWYLPVLSALVGLWNLIIYTRGFQHTGIYSVMIQKVILRDLRFL 540
Db 606 TVVSQVLCFLAIEWYLPVLSALVGLWNLIIYTRGFQHTGIYSVMIQKVILRDLRFL 665
Qy 541 IYLVFLGFAVALVSLQEAWRPEAPTGPNNATESVQPMQEDGNGAQYRGILEASLEL 600
Db 666 IYLVFLGFAVALVSLQEAWRPEAPTGPNNATESVQPMQEDGNGAQYRGILEASLEL 725
Qy 601 FKFTIGMELAFQOLHFRGMVLLIAYVLLTYLLILNMLIALMSETVNSVATDSWSIW 660
Db 726 FKFTIGMELAFQOLHFRGMVLLIAYVLLTYLLILNMLIALMSETVNSVATDSWSIW 785
Qy 661 KLOKAIISVLEMEGYWCRKQKQAGVMLTVGTDGSPDRCWCFRVEVNWASWEQTLPT 720
Db 786 KLOKAIISVLEMEGYWCRKQKQAGVMLTVGTDGSPDRCWCFRVEVNWASWEQTLPT 845
Qy 721 LCEDPSGAGVPRTLENPVLASPPKEDGSEENYVPVQLLQSN 764
Db 846 LCEDPSGAGVPRTLENPVLASPPKEDGSEENYVPVQLLQSN 889

RESULT 4

US-10-137-316-2
; Sequence 2, Application US/10137316
; Patent No. 6906178
; GENERAL INFORMATION:
; APPLICANT: Young, Paul E.
; APPLICANT: Ruben, Steven M.
; TITLE OF INVENTION: Vanilloid Receptor-2
; FILE REFERENCE: 1488.1110002
; CURRENT APPLICATION NUMBER: US/10/137,316
; CURRENT FILING DATE: 2002-05-03
; PRIOR APPLICATION NUMBER: US 09/132,316
; PRIOR FILING DATE: 1998-08-11
; NUMBER OF SEQ ID NOS: 67
; SOFTWARE: Patent In Ver. 3.1
; SEQ ID NO 2
; LENGTH: 889
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-137-316-2

Query Match

99.6%; Score 3988.5; DB 2; Length 889;

Best Local Similarity 99.9%; Pred. No. 0;
Matches 763; Conservative 0; Mismatches 0; Indels 1; Gaps 1;
Qy 1 MTSPTSSSPVFRLETLDCGQEDGSEADRGKLDGSGLPMPESQFQGEDRKFPAPQIRVNLNY 60
Db 127 MTSPTSSSPVFRLETLDCGQEDGSEADRGKLDGSGLPMPESQFQGEDRKFPAPQIRVNLNY 186
Qy 61 RKGTCASQPDNRRDRLFNASRGVPEDLAGLPEYLSKTSKYLTDSEYTEGSTGKTCL 120
Db 187 RKGTCASQPDNRRDRLFNASRGVPEDLAGLPEYLSKTSKYLTDSEYTEGSTGKTCL 246
Qy 121 MKAVLNLDGWNACILPLQLQIDRDSGNPQPLVNAQCTDDYYRSHSALHIAIEKRSLOCVK 180
Db 247 MKAVLNLDGWNACILPLQLQIDRDSGNPQPLVNAQCTDDYYRSHSALHIAIEKRSLOCVK 306
Qy 181 LLVENGANVHARACGRPFQKGCTCFYEGELPLSLAACTKQWDVSYLLENPHOPASLOA 240
Db 307 LLVENGANVHARACGRPFQKGCTCFYEGELPLSLAACTKQWDVSYLLENPHOPASLOA 366
Qy 241 TDSQNTVLHALVMSNSAENIALVTSMYDGLLQAGARLCTVQLEDIRNLQDLPKL 300
Db 367 TDSQNTVLHALVMSNSAENIALVTSMYDGLLQAGARLCTVQLEDIRNLQDLPKL 426
Qy 301 AAKGKIEIFRHILQREFSGLSHLSRKFTWCYGPVRVSLYDLASVDSCEENSVEIIF 360
Db 427 AAKGKIEIFRHILQREFSGLSHLSRKFTWCYGPVRVSLYDLASVDSCEENSVEIIF 486
Qy 361 HCKSPHRRMVVLEPLNKLQAKWDLIPKFFLNFLCNLIYMFITAVAHQPTLKK-AA 420
Db 487 HCKSPHRRMVVLEPLNKLQAKWDLIPKFFLNFLCNLIYMFITAVAHQPTLKK-AA 545
Qy 421 PHLKAEGVNSMLLTGHILILGGIYLLVQGLWYFRRHVFIIWISFIDSYPEILFQALL 480
Db 546 PHLKAEGVNSMLLTGHILILGGIYLLVQGLWYFRRHVFIIWISFIDSYPEILFQALL 605
Qy 481 TVVSQVLCFLAIEWYLPVLSALVGLWNLIIYTRGFQHTGIYSVMIQKVILRDLRFL 540
Db 606 TVVSQVLCFLAIEWYLPVLSALVGLWNLIIYTRGFQHTGIYSVMIQKVILRDLRFL 665
Qy 541 IYLVFLGFAVALVSLQEAWRPEAPTGPNNATESVQPMQEDGNGAQYRGILEASLEL 600
Db 666 IYLVFLGFAVALVSLQEAWRPEAPTGPNNATESVQPMQEDGNGAQYRGILEASLEL 725
Qy 601 FKFTIGMELAFQOLHFRGMVLLIAYVLLTYLLILNMLIALMSETVNSVATDSWSIW 660
Db 726 FKFTIGMELAFQOLHFRGMVLLIAYVLLTYLLILNMLIALMSETVNSVATDSWSIW 785
Qy 661 KLOKAIISVLEMEGYWCRKQKQAGVMLTVGTDGSPDRCWCFRVEVNWASWEQTLPT 720
Db 786 KLOKAIISVLEMEGYWCRKQKQAGVMLTVGTDGSPDRCWCFRVEVNWASWEQTLPT 845
Qy 721 LCEDPSGAGVPRTLENPVLASPPKEDGSEENYVPVQLLQSN 764
Db 846 LCEDPSGAGVPRTLENPVLASPPKEDGSEENYVPVQLLQSN 889

RESULT 5

US-09-235-451-4
; Sequence 4, Application US/09235451
; GENERAL INFORMATION:
; APPLICANT: Julius, David J.
; APPLICANT: Caterina, Michael J.
; APPLICANT: Brake, Anthony J.
; TITLE OF INVENTION: NUCLEIC ACID SEQUENCES ENCODING
; TITLE OF INVENTION: CAPSAICIN RECEPTOR AND CAPSAICIN RECEPTOR-RELATED
; TITLE OF INVENTION: POLYPEPTIDES AND USES THEREOF
; FILE REFERENCE: 9076/084CIP
; CURRENT APPLICATION NUMBER: US/09/235,451
; CURRENT FILING DATE: 1999-01-22
; PRIOR APPLICATION NUMBER: 60/072,151
; PRIOR FILING DATE: 1998-01-22
; PRIOR APPLICATION NUMBER: 08/915,461
; PRIOR FILING DATE: 1997-08-20

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; NUMBER OF SEQ ID NOS: 48
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 4
; LENGTH: 761
; TYPE: PRT
; ORGANISM: R. rattus
US-09-235-451-4

Query Match          76.2%; Score 3051.5; DB 2; Length 761;
Best Local Similarity 77.7%; Pred. No. 3.4e-279;
Matches 598; Conservative 62; Mismatches 93; Indels 17; Gaps 7;

QY 1 MTSPPSSPVRLTLDGGQGDSEADRGKLDGSGGLPPMESQFGEDRKFPAPQIRVNLNY 60
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Db 1 MTSASSPPAPRLTSDGDEGNAEVNKGQE----PPMESPPQREDRNSSPQIKVNLNF 56
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QY 61 ----RKGTGA-SQPDNRDRDLFNASVSGVPEDLAGLPXYLSKTYLTDSEYTEGST 115
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 57 IKRPPKNTSAPSQQEPRDRDLFVSVSRGVPPEUTGLLEYLRWNSKYLTDSEYTEGST 116
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

QY 116 GKTCLMKAVLNLDGYNACILPLLQIDRDSGNPQPLVNAQCTDDYYRGHSALHIAIEKRS 175
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 117 GKTCLMKAVLNLDGYNACIMPLQLQIDKSGNPKPLVNAQCTDEFYQGHSAHIAIEKRS 176
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

QY 176 LQCVKLLVNGANVHARACGRPFQKGQGTCTFYFGEPLSLAACTKQWDVVSYLLENPHQP 235
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 177 LQCVKLLVNGADVHLRACGRPFQKHQGTCTFYFGEPLSLAACTKQWDVVSYLLENPHQP 236
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QY 236 ASIQATDSQNTVLHALVMI SDSNAENIALVTSMYDGLLQAGARLCTPTQLEDIRNLQDL 295
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 237 ASLEATDSLGNTVLHALVMIADNSPENSALVIHMYDGLLQMGARLCTPTQLEISHNQGL 296
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QY 296 TPLKLAKEGKIEIFRHILQREFSG--LSHLRSKFTWCYGPVRVSYLDLASVDSCENSV 354
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Db 297 TPLKLAKEGKIEIFRHILQREFSGPYQPLSRKFTWCYGPVRVSYLDSSVDSWEKNSV 356
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

QY 355 LEIIAFHCKSPHRHVMVLEPLNKLLOAKWDLLIPKFFLNFLCNLIYMFITFAVAHQPT 414
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Db 357 LEIIAFHCKSPNHRHVMVLEPLNKLLOEKWDRLVSRFFNFACVLYVMFTFTVAVHQPS 416
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

QY 415 LKQQAAPHLKAEVGNSSMLTGHILLGGIYLLVGOLWYFRRHVFITWISFIDSYPEILF 474
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 417 LQQAIPSSKATFGESMLLGHILLGGIYLLVGOLWYFRRRLFIWISFMDISYPEILF 476
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

QY 475 LFOALLTVWSQVLCFLAIEWYLLPLVLSALVGLWNLNLIYYTRGFQHTGIYSVMIQKVLIRD 534
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 477 LLOALLTVLSQVLRFMETEWYLLPLVLSVGLWNLNLIYYTRGFQHTGIYSVMIQKVLIRD 536
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QY 535 LLRFLIYLVFLFGFAVALVSLSQEAWRPEAPTPGNATESVQPMQEGDEGNGAQYRGIL 594
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 537 LLRFLVLVFLFGFAVALVSLSREARSPKAPEDNNSVTVEQPTVGQEEB--PAPYRSIL 594
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QY 595 EASLELFKFTIGMGLAFQOLHFRGMVLLILLAYVLLTYILLNMLIALMSETVNSVAT 654
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Db 595 DASLELFKFTIGMGLAFQEURFRGVVLLLLAYVLLTYILLNMLIALMSETVNHAD 654
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QY 655 DSWSIWKLOKAIISVLEWENGYWMC--RKKORAGVMLTVGTPKDGSPDERWCFRVEEVNWA 713
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Db 655 NSWSIWKLOKAIISVLEWENGYWCCRKKHREGLLKVGTRGDGTPDERWCFRVEEVNAA 714
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QY 714 WEOTLPTLCBPPSGAGVPRTLNPVLASPPKDEDEGDGASEENYYVPVQLQS 763
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 715 WEKTLPTLSEDPSPGIGTKNKPT----SKPGKNSASEEDHLPLQVLQS 760
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RESULT 6

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US-09-978-303-4
; Sequence 4, Application US/09978303
; Patent No. 6790629
; GENERAL INFORMATION:
; APPLICANT: Julius, David J.
; APPLICANT: Caterina, Michael J.
; APPLICANT: Brake, Anthony J.
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; TITLE OF INVENTION: Nucleic acid sequences encoding
; TITLE OF INVENTION: capsaicin receptor and capsaicin receptor-related
; TITLE OF INVENTION: polypeptides and uses thereof
; FILE REFERENCE: UCAL084CON
; CURRENT APPLICATION NUMBER: US/09/978,303
; CURRENT FILING DATE: 2001-10-15
; PRIOR APPLICATION NUMBER: 09/235,451
; PRIOR FILING DATE: 1999-01-22
; PRIOR APPLICATION NUMBER: 60/072,151
; PRIOR FILING DATE: 1998-01-22
; PRIOR APPLICATION NUMBER: 08/915,461
; PRIOR FILING DATE: 1997-08-20
; NUMBER OF SEQ ID NOS: 48
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 4
; LENGTH: 761
; TYPE: PRT
; ORGANISM: R. rattus
US-09-978-303-4
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```
Query Match          76.2%; Score 3051.5; DB 2; Length 761;
Best Local Similarity 77.7%; Pred. No. 3.4e-279;
Matches 598; Conservative 62; Mismatches 93; Indels 17; Gaps 7;

QY 1 MTSPPSSPVRLTLDGGQGDSEADRGKLDGSGGLPPMESQFGEDRKFPAPQIRVNLNY 60
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 1 MTSASSPPAPRLTSDGDEGNAEVNKGQE----PPMESPPQREDRNSSPQIKVNLNF 56
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

QY 61 ----RKGTGA-SQPDNRDRDLFNASVSGVPEDLAGLPXYLSKTYLTDSEYTEGST 115
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 57 IKRPPKNTSAPSQQEPRDRDLFVSVSRGVPPEUTGLLEYLRWNSKYLTDSEYTEGST 116
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

QY 116 GKTCLMKAVLNLDGYNACILPLLQIDRDSGNPQPLVNAQCTDDYYRGHSALHIAIEKRS 175
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Db 117 GKTCLMKAVLNLDGYNACIMPLQLQIDKSGNPKPLVNAQCTDEFYQGHSAHIAIEKRS 176
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QY 176 LQCVKLLVNGANVHARACGRPFQKGQGTCTFYFGEPLSLAACTKQWDVVSYLLENPHQP 235
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 177 LQCVKLLVNGADVHLRACGRPFQKHQGTCTFYFGEPLSLAACTKQWDVVSYLLENPHQP 236
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

QY 236 ASIQATDSQNTVLHALVMI SDSNAENIALVTSMYDGLLQAGARLCTPTQLEDIRNLQDL 295
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 237 ASLEATDSLGNTVLHALVMIADNSPENSALVIHMYDGLLQMGARLCTPTQLEISHNQGL 296
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

QY 296 TPLKLAKEGKIEIFRHILQREFSG--LSHLRSKFTWCYGPVRVSYLDLASVDSCENSV 354
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 297 TPLKLAKEGKIEIFRHILQREFSGPYQPLSRKFTWCYGPVRVSYLDSSVDSWEKNSV 356
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

QY 355 LEIIAFHCKSPHRHVMVLEPLNKLLOAKWDLLIPKFFLNFLCNLIYMFITFAVAHQPT 414
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 357 LEIIAFHCKSPNHRHVMVLEPLNKLLOEKWDRLVSRFFNFACVLYVMFTFTVAVHQPS 416
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

QY 415 LKQQAAPHLKAEVGNSSMLTGHILLGGIYLLVGOLWYFRRHVFITWISFIDSYPEILF 474
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 417 LQQAIPSSKATFGESMLLGHILLGGIYLLVGOLWYFRRRLFIWISFMDISYPEILF 476
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

QY 475 LFOALLTVWSQVLCFLAIEWYLLPLVLSALVGLWNLNLIYYTRGFQHTGIYSVMIQKVLIRD 534
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 477 LLOALLTVLSQVLRFMETEWYLLPLVLSVGLWNLNLIYYTRGFQHTGIYSVMIQKVLIRD 536
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

QY 535 LLRFLIYLVFLFGFAVALVSLSQEAWRPEAPTPGNATESVQPMQEGDEGNGAQYRGIL 594
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 537 LLRFLVLVFLFGFAVALVSLSREARSPKAPEDNNSVTVEQPTVGQEEB--PAPYRSIL 594
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

QY 595 EASLELFKFTIGMGLAFQOLHFRGMVLLILLAYVLLTYILLNMLIALMSETVNSVAT 654
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 595 DASLELFKFTIGMGLAFQEURFRGVVLLLLAYVLLTYILLNMLIALMSETVNHAD 654
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

QY 655 DSWSIWKLOKAIISVLEWENGYWMC--RKKORAGVMLTVGTPKDGSPDERWCFRVEEVNWA 713
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 655 NSWSIWKLOKAIISVLEWENGYWCCRKKHREGLLKVGTRGDGTPDERWCFRVEEVNAA 714
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

QY 714 WEOTLPTLCBPPSGAGVPRTLNPVLASPPKDEDEGDGASEENYYVPVQLQS 763
   |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
```

| Query Match | 75.8%; | Score 3036.5; | DB 2; | Length 727; |
|-----------------------|-----------------|--|------------|-------------|
| Best Local Similarity | 79.1%; | Pred. No. 8.3e-278; | | |
| Matches 620; | Conservative 5; | Mismatches 82; | Indels 77; | Gaps 10; |
| QY | 1 | MTSPSSPVPRLETLDCGGQDGSADRGKLDGSLGPMESQFOGEDRKPAQIRVNLNY | 60 | |
| DB | 1 | MTSPSSPVPRLETLDCGGQDGSADRGKLDGSLGPMESQFOGEDRKPAQIRVNLNY | 60 | |
| QY | 61 | RKGTGASQDPNRFDRDLFNASRGVPEDLAGLPEYLSKTSKYLTDSEYTEGSTGKTCL | 120 | |
| DB | 61 | RKGTGASQDPNRFDRDLFNASRGVPEDLAGLPEYLSKTSKYLTDSEYTEGSTGKTCL | 120 | |
| QY | 121 | MKAVLNLKQGNACILPLLQIDRRSGNPQPLVNAQCTDDYYRHSALHIAIEKRSLOCVK | 180 | |
| DB | 121 | MKAVLNLKQGNACILPLLQIDRRSGNPQPLVNAQCTDDYYRHSALHIAIEKRSLOCVK | 180 | |
| QY | 181 | LLVENGANVHARACGRFFQKGQGTCTCFYFGEPLPLSLAACTQMDVVSVYLLNPHOPASLOA | 240 | |
| DB | 181 | LLVENGANVHARAXXXXXXXXXXXXXXGGELPLSLAACTQMDVVSVYLLNPHOPASLOA | 240 | |
| QY | 241 | TDSQGNVTLHALVMI SDNSAENIALVTSMYDGLLQAGARLCTPTVQLEDIRNLQDLTPLKL | 300 | |
| DB | 241 | TDSQGNVTLHALVMI SDNSAENIALVTSMYDGLLQAGARLCTPTVQLEDIRNLQDLTPLKL | 300 | |
| QY | 301 | AAKEGKIEFP-RHIL-QREPSGLS-HLSRFPTE-WCYGPVRVSLYDLASVDSCSENSVLE | 356 | |
| DB | 301 | AAKEGKIXIPXRHILASGSGSLGPKPPPRKPTETWMLGMPVRVXXXXXXXXXXXXXXXXXX | 360 | |
| QY | 357 | IITAFCHKSPPHRHWRVLEPLNKLLQAKWDLILPKPFLNFCNLNYMFIPTAVAHQPTLK | 416 | |
| DB | 361 | XXXXXXXXXXPPDRHWRVLEPLNKLLQAKWDLILPKPFLNFCNLNYMFIPTAVAHQPTLK | 420 | |
| QY | 417 | KQAAPHLKAEVGNMMLTGHIILGGLGYLLVGQLWYFWRR-----HVF | 460 | |
| DB | 421 | KQAAPHLKAEVGNMMLTGHIILGGLGYLLVGQWKFWXXXXXXXXXXXXXXXXXXPPGH-- | 478 | |
| QY | 461 | IWISPTDSYFEIILFLQALLTVVSQVLCFLIAIEWYLPLLVSALVLGWLNLLYYTRGFQHT | 520 | |
| DB | 479 | -----RVVPAACVCA-----GAGLAEPALLYTWL-----PAHRHL | 509 | |

```
QY 241 TDSQGNVTLHALWISDMSAENIALVTSMYDGLLQAGARLCPTVQLEDIRNQLDPLTKL 300
|||
DB 241 TDSQGNVTLHALWISDMSAENIALVTSMYDGLLQAGARLCPTVQLEDIRNQLDPLTKL 300
|||
QY 301 AAKEGKIEIF-RHIL-QREFSGLS-HLSRKFTB-WCYGPRVRSYLDASVDSCEENSYLE 356
|||
DB 301 AAKEGKIXIFXRHILASGFGSLKPPFPKFTBWMGLMPRVVXXXXXXXXXXXXXXXXXX 360
|||
QY 357 IIAFHCKSPHRRMVVLEPLNKLQAKWDLIPKFFLNFCLNLIYMFIFTAVAYHQTILK 416
|||
DB 361 XXXXXXXPDRHRMVVLEPLNKLQAKWDLIPKFFLNFCLNLIYMFIFTAVAYHQTILK 420
|||
QY 417 KOAAPHKAEVGNMMLTGHILILGGLIYLLVQGLMYFWRR-----HVF 460
|||
DB 421 KOAAPHKAEVGNMMLTGHILILGGLIYLLVQGLMYFWRR-----HVF 478
|||
QY 461 IWSFIDSFEILFLQALLTVVSVQVLCFLAIEWILPLVLSALVGLWMLNLIYYTRGFQHT 520
|||
DB 479 -----RVVPAPACVCA---GAGLAEPALLYTWL-----PAHRHL 509
|||
QY 521 GIYSVMIQVILRDLRLFLIYLVLFQFAVALVLSQBAWRPEAPTGNATESVQPMEG 580
|||
DB 510 QCHD-----PEALVLSQD-WREAPTGNATESVQPMEG 543
|||
QY 581 QDEGGAQYRGILEASLELFKFTIGMGLAFQELHFRGMVLLLLAYVLLTYILLNM 640
|||
DB 544 QDEGGAQYRGILXASLELFKFTIGMGLAFQELHFRGMVLLLLAYVLLTYILLNM 603
|||
QY 641 LIALMSETVNSVATDSWSIWKQKAI SVLEMENGYWCRKQKQAGVMTVGTGKPGDSPE 700
|||
DB 604 LIALXSETVNSVATDSWSIWKQKAI SVLEMENGYWCRKQKQAGVMTVGTGKPGDSPE 663
|||
QY 701 RWCFRVEENWASWEQTLPTLCEDPGAGVPRILENPVLASPPKEDGASEENYVPVL 760
|||
DB 664 RWCFRVEENWASWEQTLPTLCEDPGAGVPRILENPVLASPPKEDGASEENYVPVL 723
|||
QY 761 LQSN 764
|||
DB 724 LQSN 727
```

RESULT 9

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US-09-235-451-25
; Sequence 25, Application US/09235451
; GENERAL INFORMATION:
; APPLICANT: Julius, David J.
; APPLICANT: Caterina, Michael J.
; TITLE OF INVENTION: NUCLEIC ACID SEQUENCES ENCODING
; TITLE OF INVENTION: CAPSAICIN RECEPTOR AND CAPSAICIN RECEPTOR-RELATED
; FILE REFERENCE: 9076/084CIP
; CURRENT APPLICATION NUMBER: US/09/235,451
; PRIOR FILING DATE: 1999-01-22
; PRIOR APPLICATION NUMBER: 60/072,151
; PRIOR FILING DATE: 1998-01-22
; PRIOR APPLICATION NUMBER: 08/915,461
; PRIOR FILING DATE: 1997-08-20
; NUMBER OF SEQ ID NOS: 48
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 25
; LENGTH: 843
; TYPE: PRT
; ORGANISM: chicken
US-09-235-451-25
```

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Query Match 42.2%; Score 1689; DB 2; Length 843;
Best Local Similarity 47.2%; Pred. No. 2.6e-150;
Matches 359; Conservative 118; Mismatches 218; Indels 64; Gaps 12;
QY 4 PSSSPVRLTDLGGQDGEADRGKL---DFSGGLPPMESQFGEDRKFAPO-IRVNLN 59
|||
DB 49 PSKSNIF-----ARRGRFVMGDCDKAPMDSFYQ-WDHLMAVPSIKFHAN 93
|||
```

```
QY 60 YRKG-----TGASQPDNFRDRRLFNANVRSGVPEDLAGLPEVLSKTSKYLTD 108
|||
DB 94 MERGKHLKLLSDTSITGCSEKAFKYDRRIIFDAVARGSTKOLDLDDLLLNRLKHLTDD 153
|||
QY 109 EYTEGSTGTCLMKAVLNKDGVNACILPLLOIDRDSGNPOPLVNAQCTDDVYRHSALH 168
|||
DB 154 EFKPETGTCLLKAWLNLHDGKNDTIFLLDDIAKTGTGLKGFVNAEYTDNYKGTQALH 213
|||
QY 169 IAIKRSLOCVLLVNGENVANVHARACGRFQKQG--TCFYFGELPLSLAACTKQWDVVS 227
|||
DB 214 IAIERNMYLVKLLVQNGADVHARACGEBFRKIKGKPGFYFGEPLSLAACTNQLCIVK 273
|||
QY 228 LLENPHQASLQATDSQGNVTLHALWISDMSAENIALVTSMYDGLLQAGARLCPTVQLE 287
|||
DB 274 LLENPYQAADIAAEDSMGNMVLHTLVEIADNTKDNFTKVTMYNNTLIIIGAKINPLKLE 333
|||
QY 288 DIRNQLDPLKLAKEGKIEIFRHLQREFSG--LSHLSRKFTWCYCPVRVSLYDLAS 345
|||
DB 334 ELTNKKGTLPLTAAKTGKIGIFAYILRREIKDPECRHLSRKFTWAYGPHVHSSLYDLS 393
|||
QY 346 VDSCEENSYLEIIAFHCKSPHRRMVVLEPLNKLQAKWDLIPK--FFLNFCLNLIYMF 404
|||
DB 394 IDTCKNSVLEIIAYSSETPNRHEMLLVEPLNRLQDKWDRFVKHLFYFNFFVYATHIS 453
|||
QY 405 FTAVAYHQTILKQAAAPH-LKAEVGNMMLTGHILILGGLIYLLVQGLMYFWRRHVIWI 463
|||
DB 454 LTTAAVYRPVQGDKPPFAFGHSTGEYFRVTGEILSVLGLYFFFRGIQYFVQRRPSLKT 513
|||
QY 464 SFIDSFEILFLQALLTVVSVQVLCFLAIEWILPLVLSALVGLWMLNLIYYTRGFQHTGI 523
|||
DB 514 LIVDSYSEVLFVHSLSSVVLVFCGQELVYASVMVFLSALGWMANMLYYTRGFQMGYI 573
|||
QY 524 SVMIOKVIURDLRLFLIYLVLFQFAVALVLSQBAWRPEAPTGNATESVQPMEGQED 583
|||
DB 574 SVMIAKMLRDLRCRFMFVYLVFLGFSVAVVLIED-----DNEGQDT 616
|||
QY 584 EGN-----GAQYRGILEASLELFKFTIGMGLAFQELHFRGMVLLLLAYVLL 632
|||
DB 617 NSSEVARSCHTKRGRTSYNSLYVTCLELFKFTIGMDLEFTENYRFKSFVILLVYVIL 676
|||
QY 633 TYILLNMLIALMSETVNSVATDSWSIWKQKAI SVLEMENGYWCRKQKQAGVMTVGTG 691
|||
DB 677 TYILLNMLIALMGETVNSKIAQESKIWKQLRPITLIDISYLNCLIRRSFRSGKRVLV 736
|||
QY 692 TKPDGSPDERWCFRVEENWASWEQTLPTLCEDPGAG 729
|||
DB 737 ITPDQGDYRWCFRVDEENVNWSWTNLTNLGINEDPGCSG 774
|||
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RESULT 10

```
US-09-978-303-25
; Sequence 25, Application US/09978303
; Patent No. 6790629
; GENERAL INFORMATION:
; APPLICANT: Julius, David J.
; APPLICANT: Caterina, Michael J.
; APPLICANT: Brake, Anthony J.
; TITLE OF INVENTION: Nucleic acid sequences encoding
; TITLE OF INVENTION: capsaicin receptor and capsaicin receptor-related
; FILE REFERENCE: UCAL084CON
; CURRENT APPLICATION NUMBER: US/09/978,303
; CURRENT FILING DATE: 2001-10-15
; PRIOR APPLICATION NUMBER: 09/235,451
; PRIOR FILING DATE: 1999-01-22
; PRIOR APPLICATION NUMBER: 60/072,151
; PRIOR FILING DATE: 1998-01-22
; PRIOR APPLICATION NUMBER: 08/915,461
; PRIOR FILING DATE: 1997-08-20
; NUMBER OF SEQ ID NOS: 48
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 25
```



```
; Sequence 3, Application US/09132316B
; Patent No. 644440
; GENERAL INFORMATION:
; APPLICANT: Young, Paul E.
; APPLICANT: Ruben, Steven M.
; TITLE OF INVENTION: Vanilloid Receptor-2
; FILE REFERENCE: 1488.1110000
; CURRENT APPLICATION NUMBER: US/09/132,316B
; CURRENT FILING DATE: 1998-08-11
; EARLIER APPLICATION NUMBER: US 60/040,163
; EARLIER FILING DATE: 1997-03-07
; EARLIER APPLICATION NUMBER: PCT/US98/04493
; EARLIER FILING DATE: 1998-03-06
; NUMBER OF SEQ ID NOS: 67
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 3
; LENGTH: 838
; TYPE: PRT
; ORGANISM: Rattus norvegicus
; US-09-132-316-3

Query Match 41.3%; Score 1652; DB 2; Length 838;
Best Local Similarity 46.3%; Pred. No. 8e-147;
Matches 359; Conservative 127; Mismatches 230; Indels 60; Gaps 15;

QY 18 GQDGEADRGKLDGFGSLPPMESQFGEDRKFAPOIRVN---LNYRKGTG----- 65
Db 51 GKGDSEAS-----PLDCPYEEGGLASCPITVSSVLTIQRPDGPASVRPSSQ 99
QY 66 ----ASQPDNRRDRDLFNAVGRVPEDLAGLPEYLSKTSKYLTSEYTEGSGTKTCLM 121
Db 100 DSVSAGEKPEPLDYDRRSIFDAVAQNCQELSLPFLQSKKRLTDFSEKDPETGKTCLL 159
QY 122 KAVLNKDGVNACILPLQIDRDSGNPQPLVNAOCTDDYVGRHSALHIAIEKESLOCVKL 181
Db 160 KAMLNHNGQNDTIALLLDVARKTDSLKQFVNASYTDSYKGTALHIAIERNNMTLVTL 219
QY 182 LVENGANVHARACGRFFQKQG--TCFYFGEPLPLSLAACTKQMDVSVSYLLENPHQPASLOA 240
Db 220 LVENGADVQAAANGDFPKTKGRPGFYFGEPLPLSLAACTNQLAIVKFLQNSQPADISA 279
QY 241 TDSQGNVTLHALVMSIDNSAENALVTSYDGLLQAGARLCPVQLEEDINLQDLTPLKL 300
Db 280 RDSVGNVTLHALVEADNTVDNTKFVTSMYNEILILGAKLHPTLKLEETNRKGLTPLAL 339
QY 301 AAKEGKIEIFRHTLOREF--SGLSHLSRKFTWCYGPVRVSLYDLASVDSCEANSVLEII 358
Db 340 AASSGKIGVLAAYILOREIHEPECRHLSRKFTWAYGPHVSSLYDLSCIDTCEKNSVLEVI 399
QY 359 AF-HCKSPHRRMVLEPLNKLQAKWDLIPK--FFLNFLCNLIYMFIFTAVAYHOPTLK 416
Db 400 AYSSSTPNRHDMLLVEPLNRLLODKWDRFVKRIFVFNFPVCLYMIIFTAAAYRPV-- 457
QY 417 KQAAP--HLKAEVGNMMLTGHILILLGGIYLVGQLWYFRRHVFIVISFIDSYEILF 474
Db 458 -EGLPPYKLNKTVDGYFRVTGTEILSVSGGYFFFRGFIQYLRPRPSLKSFLVDSYSEILF 516
QY 475 LFQALLTVSVQVLCFLAIEWYPLLVLSALVGLWNLNLYYTRGFQHTGIYSVMIOKVILRD 534
Db 517 FVQSLFVLSVVLVYFSQKRYVASMVFSLANGTNMLYTRGFQQQGIYAVMIERMLIRD 576
QY 535 LLRFLIYLVFLRGFAVALVSLSQEAWRPEAPTGNATESVQPMQEGDEGNGA----- 588
Db 577 LCRFMFVYLVFLGFPSTAVVTIED-----GKN---NSLPWESTPHKCRGSACKPGN 625
QY 589 OYRGILEASLELPKFTIGMCELAFQEQHPRGMVLLLLAYLVLTILLNMLIALMSET 648
Db 626 SYNSLYSTCLPELKFKTIGMDLEFTENYDPKAVFIILLAYLVLTILLNMLIALMGET 685
QY 649 VNSVATDSWSIWKLOKAIISVLEMGYVWC--RKQKQAGVMLTVGTGPDGSPDRWCFRVE 707
Db 686 VNKIAQESKNIWKLOKRAITILLDTKEKFLKCNKRAFRSGKULQVGTGPDGKDDIRWCFRVD 745
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QY 708 EVNWASWEQTLPTLCEPDPSGA-GVPRTLNPNVLASPPKEDDEDCASENVVPVOLLQ 762
Db 746 EVNWTTWNTNVGIINEDPCNCEGVKRTLSFSLRSG---RVSGRNWKNFALVPLLR 797

RESULT 13
US-09-667-422-9
; Sequence 9, Application US/09667422
; Patent No. 6482611
; GENERAL INFORMATION:
; APPLICANT: Cortright, Daniel
; APPLICANT: Krause, James
; TITLE OF INVENTION: Human Capsaicin Receptor and Uses Thereof
; FILE REFERENCE: HCR
; CURRENT APPLICATION NUMBER: US/09/667,422
; CURRENT FILING DATE: 2001-06-07
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 9
; LENGTH: 838
; TYPE: PRT
; ORGANISM: Rattus sp.
; PUBLICATION INFORMATION:
; AUTHORS: Caterina, Michael J.
; AUTHORS: Schumacher, Mark A.
; AUTHORS: Tomimaga, Makoto
; AUTHORS: Rosen, Tobias A.
; TITLE: The capsaicin receptor: a heat-activated ion channel in
; TITLE: the pain pathway
; JOURNAL: Nature
; VOLUME: 389
; PAGES: 816-824
; DATE: 1997
; US-09-667-422-9

Query Match 41.3%; Score 1652; DB 2; Length 838;
Best Local Similarity 46.3%; Pred. No. 8e-147;
Matches 359; Conservative 127; Mismatches 230; Indels 60; Gaps 15;

QY 18 GQDGEADRGKLDGFGSLPPMESQFGEDRKFAPOIRVN---LNYRKGTG----- 65
Db 51 GKGDSEAS-----PLDCPYEEGGLASCPITVSSVLTIQRPDGPASVRPSSQ 99
QY 66 ----ASQPDNRRDRDLFNAVGRVPEDLAGLPEYLSKTSKYLTSEYTEGSGTKTCLM 121
Db 100 DSVSAGEKPEPLDYDRRSIFDAVAQNCQELSLPFLQSKKRLTDFSEKDPETGKTCLL 159
QY 122 KAVLNKDGVNACILPLQIDRDSGNPQPLVNAOCTDDYVGRHSALHIAIEKESLOCVKL 181
Db 160 KAMLNHNGQNDTIALLLDVARKTDSLKQFVNASYTDSYKGTALHIAIERNNMTLVTL 219
QY 182 LVENGANVHARACGRFFQKQG--TCFYFGEPLPLSLAACTKQMDVSVSYLLENPHQPASLOA 240
Db 220 LVENGADVQAAANGDFPKTKGRPGFYFGEPLPLSLAACTNQLAIVKFLQNSQPADISA 279
QY 241 TDSQGNVTLHALVMSIDNSAENALVTSYDGLLQAGARLCPVQLEEDINLQDLTPLKL 300
Db 280 RDSVGNVTLHALVEADNTVDNTKFVTSMYNEILILGAKLHPTLKLEETNRKGLTPLAL 339
QY 301 AAKEGKIEIFRHTLOREF--SGLSHLSRKFTWCYGPVRVSLYDLASVDSCEANSVLEII 358
Db 340 AASSGKIGVLAAYILOREIHEPECRHLSRKFTWAYGPHVSSLYDLSCIDTCEKNSVLEVI 399
QY 359 AF-HCKSPHRRMVLEPLNKLQAKWDLIPK--FFLNFLCNLIYMFIFTAVAYHOPTLK 416
Db 400 AYSSSTPNRHDMLLVEPLNRLLODKWDRFVKRIFVFNFPVCLYMIIFTAAAYRPV-- 457
QY 417 KQAAP--HLKAEVGNMMLTGHILILLGGIYLVGQLWYFRRHVFIVISFIDSYEILF 474
Db 458 -EGLPPYKLNKTVDGYFRVTGTEILSVSGGYFFFRGFIQYLRPRPSLKSFLVDSYSEILF 516
QY 475 LFQALLTVSVQVLCFLAIEWYPLLVLSALVGLWNLNLYYTRGFQHTGIYSVMIOKVILRD 534
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Db 517 FVQSLFMLVSVLVYFSQKVEYVSMVPSFSLAMGWTNMLYYTRGFQOMGIYAVMIEMILRD 576
Qy 535 LLRELLIYLVFLFGFAVALVLSQEAWRPEAPTGNATESVQPMQGEDEGNGA----- 588
Db 577 LCRPMFVYLVFLFGFSTAVVTLIED-----GKN-----NSLPWESTPHKCRGSACKPGN 625
Qy 589 QYRGILEASLELPKFTTGMGELAFQEQHFRGMVLLLLAYVLLTYILLNMLIALMSET 648
Db 626 SYNSLYSTCLELPKFTTGMGDLFTENYDFKAVFIILLAYVILTYILLNMLIALMGET 685
Qy 649 VNSVATDSWSIWKLOKAI SVLEMENGYWMC-RKKORAGVMLTVCTKPDGSDERWCPRVE 707
Db 686 VNKIAQESKNVWKLOQRAITILDTEKSLKCMRKAFRSGLKLQVGFDPGKDDYRWCPRVD 745
Qy 708 EVNWSAEQTLPTLCEDPSGA-GVPRTLNPNVLASPPKEDBDGASEENYVPVQLLO 762
Db 746 EVNWTNTNNGIINEDPGNCEGVKRTLSFSLRSG-----RVSGRNWKNFALVPLLR 797

RESULT 14
US-09-978-303-2
; Sequence 2, Application US/09978303
; Patent No. 6790629
; GENERAL INFORMATION:
; APPLICANT: Julius, David J.
; APPLICANT: Caterina, Michael J.
; APPLICANT: Brake, Anthony J.
; TITLE OF INVENTION: Nucleic acid sequences encoding
; TITLE OF INVENTION: capsaicin receptor and capsaicin receptor-related
; TITLE OF INVENTION: polypeptides and uses thereof
; FILE REFERENCE: UCAL084CON
; CURRENT APPLICATION NUMBER: US/09/978,303
; CURRENT FILING DATE: 2001-10-15
; PRIOR APPLICATION NUMBER: 09/235,451
; PRIOR FILING DATE: 1999-01-22
; PRIOR APPLICATION NUMBER: 60/072,151
; PRIOR FILING DATE: 1998-01-22
; PRIOR APPLICATION NUMBER: 08/915,461
; PRIOR FILING DATE: 1997-08-20
; NUMBER OF SEQ ID NOS: 48
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 838
; TYPE: PRT
; ORGANISM: R. rattus
US-09-978-303-2

Query Match 41.3%; Score 1652; DB 2; Length 838;
Best Local Similarity 46.3%; Pred. No. 8e-147;
Matches 359; Conservative 127; Mismatches 230; Indels 60; Gaps 15;

Qy 18 GQSDGSEADRGKLDGSGLPMEQFOGEDRKPAQIRVN---LNYRKGTVG----- 65
Db 51 GKGDSSEAS-----PLDCPYEGGLASCPITVSSVLTQRPDGPASVRPSSQ 99
Qy 66 ----ASQPDNPRDRDRFLNVAISGVPEDLAGLPEYLSKTSKYLTDSYETGSGTKCLM 121
Db 100 DSVSAGEKPLRYDRSIFDAVAGSNQOELESLLPFLQSKGLTDSFQDPETGKTCLL 159
Qy 122 KAVLNKDGYNACILPLLQIDRSGNPQPLVNAQCTDDYYRGHSALHIAIEKSLQCVKL 181
Db 160 KAMNLHNGQNDTIALLLDVARQTSLSKQFNASYSYTSYKQGTALHIAIERNNMTLVT 219
Qy 182 LVENGANVHARACGRPFQKQGG-TCFYFGLPLSLAACTQWDVSVVLENPHQASLOA 240
Db 220 LVENGADVQAANGDFPKTKGRPGFYFGLPLSLAACTNQLAIVKFLQNSWQPADISA 279
Qy 241 TDSQNTVLHALVMSISNAENTALVTSYDGLLOAGARLCPVTQVLEDIRNLODTPKL 300
Db 280 RDSVGNVTLHALVEADVNTVNTKFTVSMYNEIILGAKLHPTLKEIETNRKGLTPAL 339
Qy 301 AAKEGKIEIPRHILQREF--SGLSHLRKFTEWYGPVRSVLYDLASVDSCEBNSVLEII 358

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Db 340 AASGKGTVGLAYILQREIHEPECHRLSRKFTWYAGPVHSSLYDLSCIDTCERKNSVLEVI 399
Qy 359 AF-HCKSPHRRMVVLEPLNKLQAKWDLIPK--FFLNFLCNLYMTFTTAVAYHPTLK 416
Db 400 AYSSETPNRHDMMLVLEPLNKLQAKWDRFVKRIFYPNFYCYCLMIIFTAAAYRPV-- 457
Qy 417 QKAAP--HLKAEVNSMLLTGHILILGGLYLLVQGLWYFRRHVFVWISFIDSYFEILF 474
Db 458 -EGLPPYKLNKNTVDYFRVITGEILSVSGGVYFFPRGQYFQRRPSLSKSLFVDSYSEILF 516
Qy 475 LFQALLTVVSVQVLCFLAIEWVPLLVLSALVLCWLNLLYYTRGFQHTGIYSWIKVILRD 534
Db 517 FVQSLFMLVSVLVYFSQKVEYVSMVPSFSLAMGWTNMLYYTRGFQOMGIYAVMIEMILRD 576
Qy 535 LLRELLIYLVFLFGFAVALVLSQEAWRPEAPTGNATESVQPMQGEDEGNGA----- 588
Db 577 LCRPMFVYLVFLFGFSTAVVTLIED-----GKN-----NSLPWESTPHKCRGSACKPGN 625
Qy 589 QYRGILEASLELPKFTTGMGELAFQEQHFRGMVLLLLAYVLLTYILLNMLIALMSET 648
Db 626 SYNSLYSTCLELPKFTTGMGDLFTENYDFKAVFIILLAYVILTYILLNMLIALMGET 685
Qy 649 VNSVATDSWSIWKLOKAI SVLEMENGYWMC-RKKORAGVMLTVCTKPDGSDERWCPRVE 707
Db 686 VNKIAQESKNVWKLOQRAITILDTEKSLKCMRKAFRSGLKLQVGFDPGKDDYRWCPRVD 745
Qy 708 EVNWSAEQTLPTLCEDPSGA-GVPRTLNPNVLASPPKEDBDGASEENYVPVQLLO 762
Db 746 EVNWTNTNNGIINEDPGNCEGVKRTLSFSLRSG-----RVSGRNWKNFALVPLLR 797

RESULT 15
US-10-246-435-9
; Sequence 9, Application US/10246435
; Patent No. 6867009
; GENERAL INFORMATION:
; APPLICANT: Cortright, Daniel
; APPLICANT: Krause, James
; TITLE OF INVENTION: Human Capsaicin Receptor and Uses Thereof
; FILE REFERENCE: HCR
; CURRENT APPLICATION NUMBER: US/10/246,435
; CURRENT FILING DATE: 2002-09-18
; PRIOR APPLICATION NUMBER: US/09/667,422
; PRIOR FILING DATE: 2001-06-07
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 9
; LENGTH: 838
; TYPE: PRT
; ORGANISM: Rattus sp.
; PUBLICATION INFORMATION:
; AUTHORS: Caterina, Michael J.
; AUTHORS: Schumacher, Mark A.
; AUTHORS: Tominaga, Makoto
; AUTHORS: Rosen, Tobias A.
; TITLE: The capsaicin receptor: a heat-activated ion channel in
; TITLE: the pain pathway
; JOURNAL: Nature
; VOLUME: 389
; PAGES: 816-824
; DATE: 1997
US-10-246-435-9

Query Match 41.3%; Score 1652; DB 2; Length 838;
Best Local Similarity 46.3%; Pred. No. 8e-147;
Matches 359; Conservative 127; Mismatches 230; Indels 60; Gaps 15;

Qy 18 GQSDGSEADRGKLDGSGLPMEQFOGEDRKPAQIRVN---LNYRKGTVG----- 65
Db 51 GKGDSSEAS-----PLDCPYEGGLASCPITVSSVLTQRPDGPASVRPSSQ 99
Qy 66 ----ASQPDNPRDRDRFLNVAISGVPEDLAGLPEYLSKTSKYLTDSYETGSGTKCLM 121

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Qy      122  KAVLNLDKGVNACILPLLOIDRDSGNPQPLVNAQCTDDYVRGHSALHIAIEKRSLOCVKL 181
Db      160  KAMNLHNGQNDTIALLLDVARKTDSLKQFVNASYTDSYKGGTALHIAIERNMTLVTL 219
Qy      182  LVENGANVHARACGRPFQKQG--TCFYFGEPLPLSLAACTKQMDVVSYLENPHQPASLOA 240
Db      220  LVENGADVQAAANGDFKKTGRPGFYFGEPLPLSLAACTNQLAIVKFLQNSWQPADISA 279
Qy      241  TDSQGNVLHALVIMISDNSENIALVTSMDGLLOAGARLCPTVOLEDIRNQLDLPKL 300
Db      280  RDSVGNVLHALVEVADNTVDNTKFTVTSYNEILILGAKLHPTLKLEETNRKGLTPLAL 339
Qy      301  AAKEGKIEIFRHTLOREF--SGLSHLSRKFTCYGVRVSLYDLASVDSCENSVEI 358
Db      340  MASSGKIGVLAYLQREIHEPECRHLSRKFTWAYGFVHSSLYDLSCTICEKNSVLEVI 399
Qy      359  AF-HCKSPHRRMVLEPLNKLQAKWDLIPK--FFLNFCLNLIYMFITAVAYHOPTLK 416
Db      400  AVSSSETPNRHDMLLVEPLNRLQDKWDRFVKRIFYFNFVCLYMIIFTAAAYRPV-- 457
Qy      417  KQAP--HLKAEVCNSMLTGHILILLGGIYLLVGQWYFWRHVFIIWISFIDSYPEILP 474
Db      458  -EGLPPYKLNVTGDIYFRVTGEILSVGGYFFFRGIQYFLQRRPSLSLFDVDSYSEILF 516
Qy      475  LFOALLTVVSQVLCFLAIEWLPLLVLSALVGLWNLNLYYTRGFQHTGIYSVMIOKVILRD 534
Db      517  FVOSLPMVSVVLYFSQREYVASMVPSLAWGTNMLYTRGQQMGIIYAVMIEKWLIRD 576
Qy      535  LIRPLLIYLVFLFGFAVALVLSQEAWRPEAPTGPNATESVQPMEGQDEGNGA----- 588
Db      577  LCRFMYVLVFLFGFSTAVVTLIED-----GKN---NSLPMESTPHKCRGSACKPGN 625
Qy      589  QYRGILEASLELFKFTIGHGELAFQQLHFRGMVLLLLAYVLLTYILLNMLIALMSET 648
Db      626  SYNLSYSTCLELPKFTIGHGDLFTENYDFKAVFIILLAYVLLTYILLNMLIALMGET 685
Qy      649  VNSVATDSWSIWKLQKAIISVLEMGYWWC-RKKORAGVNLTVGTPDGSPDERWCPRVE 707
Db      686  VNKIAQESKNWKLQRAIYILDTEKSFCLKWRKAFRSGKLLQVGFTPDGKDDYRWCPRVD 745
Qy      708  EVNWASWEQTLPTLCEDPSGA-CVPRLENPVLASPPKEDGDGASEENYVPVOLLQ 762
Db      746  EVNWTNTNNGIINEDPGNCEGVKRTLSFSLRSG---RVSGRNWKNFALVPLLR 797

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Search completed: February 18, 2006, 03:37:16
Job time : 54 secs